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PERSONAL.

Mr. W. J. McKee has been appointed Superintendent of the Missouri Pacific R. R. between Hoisington, Kan., and Pueblo, Colo.

Mr. C. H. Cartlidge has been appointed Engineer of Bridges of the Chicago, Burlington & Quincy R. R., with offices at Chicago.

Mr. Geo. L. Wells has opened an office at 908 New England Building, Cleveland, O., to carry on a business in civil engineering.

Mr. George B. Hayes has been elected President of the Cast Iron Pipe & Foundry Co., to succeed General Samuel Thomas, who has resigned owing to ill health.

Mr. C. R. Williams has been appointed General Master Mechanic of the Buffalo & Susquehanna R. R., with headquarters at Galeton, Pa., succeeding Mr. W. A. Brown, resigned.

Mr. Edward Kirk Large, who was recently graduated from Princeton University with the degree of Civil Engineer, has accepted a position on the engineering staff of the Pennsylvania R. R.

Mr. G. O. House has resigned his position as Assistant Engineer in the employ of the State of New York, and will hereafter be connected with the American District Steam Co., of Lockport, N. Y.

Mr. R. H. Aishton, General Superintendent of the Chicago & Northwestern Ry., has been appointed Assistant General Manager. He is succeeded in his former position by Mr. W. D. Cantillon, Assistant General Superintendent.

Mr. Milton H. Smith, of Louisville, Ky., has been elected President of the Atlanta, Knoxville & Northern Ry., succeeding Mr. H. K. McHarg, resigned; and Mr. John B. Newton, of Knoxville, Tenn., succeeds the late E. C. Spalding as Vice-President.

Mr. C. M. Hunt has been appointed General Superintendent of the St. Louis, Memphis & Southeastern R. R., and Mr. W. G. Tiffany, Acting Superintendent of the Hoxie Branch of that road, is appointed Superintendent of the Memphis Division, succeeding Mr. Hunt.

Mr. P. W. Folger, General Superintendent of the Brooklyn Rapid Transit Co., has resigned, and is succeeded by Mr. G. W. Edwards, who once before held the same position. Mr. Reginald Fay, Assistant General Superintendent of the Elevated Department, also resigned with Mr. Folger.

Mr. G. H. Bremner, M. Am. Soc. C. E., Division Engineer of the Chicago, Burlington & Quincy R. R., has been made Engineer of Lines in Illinois of that road, with offices in Chicago. Mr. Frank Beckwith, Division Engineer, has been appointed Engineer of Lines in Iowa, at Burlington, Ia.

Mr. A. W. Swanitz has resigned his position as Chief Engineer for the Chicago Transfer & Clearing Co. (whose switching and interchange yards were described in our issue of Jan. 2, 1901), and has opened an office for business as a consulting and contracting engineer at 1516 Manhattan Building, Chicago.

Mr. C. G. Malcolmson has been appointed Superintendent of Power and Transmission at the World's Fair, St. Louis, Mo., 1904. Mr. Malcolmson held a somewhat similar position in the Department of Machinery and Electricity for the United States Commission at the Paris Exhibition in 1900, and was Superintendent of Light and Power at the Charleston Exposition.

Mr. J. H. Whieldon, M. Inst. C. E., formerly Resident Engineer of the Zuurbekom (Johannesburg) Water-Works, the Pernambuco Water-Works (Brazil) and the River Trent Navigation (England), has opened offices at 23 Portland House, Commissioner St., Johannesburg, South Africa, to continue his practice as Consulting Engineer, making a specialty of works for the water supply of towns and other hydraulic works.

Monsieur Albert Boyer, Representative of the firm of Hughes, La Roe & Co., builders and contractors, of Paris, arrived at New York city from Havre on June 29. Monsieur Boyer comes here for the purpose of studying American methods of steel construction in buildings and to secure the services of four experienced men in the construction of tall steel frame buildings to superintend the work on one to be built by the firm he represents in Paris.

Col. Henry G. Prout, M. Am. Soc. C. E., Editor of "The Railroad Gazette," of New York city, was given the honorary degree of Master of Arts by Yale University at the recent commencement exercises on June 25. Col. Prout graduated from the University of Michigan in the Civil Engineering course with the class of 1871. He was Major of Engineers and later Colonel on the general staff of the Egyptian Army in the later '70's, while the Egyptian Government was under international control, and was at one time Governor of the Equatorial Provinces. Since 1887 Col. Prout has been Editor-in-Chief of "The Railroad Gazette," and has also made frequent contributions to periodical literature. His work as an editor, as an engineer and as a writer and speaker during the past dozen years fully justifies the honor which has been awarded him.

OBITUARY

Mr. P. W. Leete, Civil Engineer, died at Fish Creek, N. Y., on June 19, aged 86 years.

Mr. David Randolph Morse, engaged in the manufacture of wire goods and ventilation appliances, died at his home, in Brooklyn, N. Y., on June 28.

Mr. William B. S. Reed, Civil and Mining Engineer, died in Brooklyn, N. Y., on July 27, aged 45 years. Mr. Reed was a graduate of the Brooklyn Polytechnic Institute and of Columbia University, and had been identified with both branches of his profession in the West and the South.

Mr. William Lines Mintonye, Naval Constructor, U. S. N., retired, died June 25 at his home, in Brooklyn, N. Y., in his 73d year. Mr. Mintonye entered the naval service in 1869 and became a naval constructor in 1888. He supervised the construction of the battleship "Maine," which was destroyed in Havana Harbor in February, 1898.

Mr. M. G. Howe, M. Am. Soc. C. E., died at his residence in Houston, Tex., on June 19, after many months of ill health. Mr. Howe was born at Methuen, Mass., in 1834, and was a graduate of Dartmouth College, New Hampshire. In 1859 he went to Houston and entered the Engineering Department of the Houston & Texas Central R. R. At the outbreak of the Civil War he enlisted in the Confederate Army, and was later made Captain of Engineers. After the war he again entered the service of the Houston & Texas Central Ry., and soon became a Division Engineer and Superintendent. In 1885 he was made Receiver of the Houston East & West Texas Ry., and after the road passed out of the receiver's hands was appointed its General Manager. He was made Chief Engineer of the Houston & Texas Central Ry. in 1899, but retired one year later owing to failing health.

Major Ira A. Shaler, M. Am. Soc. C. E., sub-contractor on the New York Rapid Transit Ry., died on June 29 at the Presbyterian Hospital, as the result of injuries sustained from rock falling upon him in the tunnel on June 17. Mr. Shaler was the son of Gen. Alexander Shaler, and was born in New York city 40 years ago. He was educated in the schools of this city and left the College of the City of New York to enter the Engineering Department of Cornell University. He graduated from the latter institution in 1884 with the degree of B. C. E. After gaining practical engineering experience in the construction of the New Croton Aqueduct, Mr. Shaler went into business as a contracting engineer, and among the works executed in whole or in part by him were the Cornell Hydraulic Laboratory, at Ithaca, N. Y.; the Titicus Dam, on the Croton water system; U. S. fortifications on Gull Island; the dam at Cold Spring, N. Y.; the water system of Gloversville, N. Y., and the changing of the Madison Ave. street railway tracks to a conduit electric system. When the construction of the Rapid Transit Ry. for this city was commenced Mr. Shaler obtained the sub-contract for Section 4, lying between 34th and 42d Sts. on Fourth Ave. This work included two parallel tunnels through the somewhat treacherous rock underlying this portion of the city, and Mr. Shaler took unusual and expensive precautions to guard against the very misfortune that he there later encountered. Everything was going smoothly and the work was approaching completion when, on Jan. 27, an explosion of dynamite occurred that killed five persons, wrecked the Murray Hill Hotel and seriously damaged other property in the vicinity. While every one exonerates Mr. Shaler personally for blame in this calamity, under his contract he was legally liable for the damage done, and this one occurrence is said to have ruined him financially. After this came the conflagration which destroyed the 71st Regiment Armory and burned a part of Major Shaler's plant and tools, and soon afterward a cave-in at 37th St., on his section, resulting in great damage to the adjoining property, and for which the contractor was again held responsible. The culmination of this chain of misfortunes came on June 17, when, in company with Chief Engineer William Barclay Parsons and Deputy Engineer George S. Rice, Mr. Shaler was inspecting a portion of the tunnel near 38th and 39th Sts. The roof of gneiss rock was shored up at this point, but a mass of rock, loosened by the blasting, fell upon Mr. Shaler, striking him on the back of his head and shoulders, and from the injuries then received he later died. At the outbreak of the Spanish-American War Mr. Shaler was active in organizing the First Volunteer Engineer Regiment, commanded by Col. Griffin, and became Captain of Co. F and was ultimately Major of the regiment. He saw active service in Porto Rico.

The misfortunes of Major Shaler, culminating in his death, have called out universal and deep-felt sympathy and sorrow from his host of friends, professional and personal. All testify to his professional capacity, his constant and careful personal supervision of the work under his charge, and to the marked courage and fortitude with which he met his calamities and his death.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
July 21, etc. Annual convention at Atlantic City, N. J. Secy., J. D. Farasey, Cleveland.

LEAGUE OF AMERICAN MUNICIPALITIES.
Aug. 27-29. Annual meeting at Grand Rapids, Mich. Secy., J. McVicar, Des Moines, Ia.

AMERICAN ELECTROCHEMICAL SOCIETY.
Sept. 15-17. Annual meeting at Niagara Falls, N. Y. Secy., C. J. Reed, Philadelphia.

ROADMASTERS' & MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 9, 10, 11. Annual meeting at Milwaukee, Wis. Secy., C. McEnery, Cedar Rapids, Ia.

NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 10, 11, 12. Annual convention at Boston, Mass. Secy., Willard Kent, Narragansett Pier, R. I.

CANADIAN MINING INSTITUTE.—The traveling summer meeting which it had been planned to hold this year at Sault Ste. Marie has been deferred for a year. It had been expected to hold the meeting jointly with the Lake Superior Mining Institute, but the latter society will be unable to take part this year. The meeting was therefore postponed to 1903. The regular meeting of the Canadian Mining Institute will take place at Nelson, B. C., on Sept. 10, 1902.—Secy., B. T. A. Bell, Ottawa.

NEW PUBLICATIONS.

THE POPULATION AND FINANCES OF BOSTON.—A Study of Municipal Growth. By Frederick H. Fay, M. S. Boston: Municipal Printing Office. Cloth; 8 × 10 ins.; pp. 33; three folding plates of diagrams in pocket.

Mr. Fay, assisted by other members of the engineering department of the city, made this study for the mayor of Boston. Using population figures from 1790 to 1900, yearly numbers of persons assessed for poll tax and also yearly assessed valuations from 1821 to 1900; and income, expenditure and net debt for the years 1874 to 1900, he has plotted various curves and derived formulas for forecasting the corresponding figures. His methods are explained and comments on his results are made in the text which accompanies the tables and diagrams. Mr. Fay recognizes the uncertainties of formulas when applied to some of the annual statistics studied, notably the net debt. Nevertheless he believes the figures deduced and tabulated for the years 1900, 1905, 1910, 1925 and 1950 will some of them be fairly approximate, while those most unreliable at least serve as a warning. Certainly the latter is true of the net debt, which, in 1850, would be 16.1% of the total valuation by one formula and 26.3% by another. The study is a most creditable piece of work and it may well prompt others to make similar investigations.

IRRIGATION INVESTIGATIONS IN CALIFORNIA.—Report Made Under the Direction of Elwood Mead, Assisted by Wm. E. Smythe, Marsden Manson, J. M. Wilson, Chas. D. Marx, Frank Soule, C. E. Grunsky, Edw. M. Boggs and Jas. D. Schuyler. Bulletin No. 100, U. S. Department of Agriculture, Office of Experiment Stations. Washington, D. C.: Pub. Doc. Cloth; 9 × 12 ins.; pp. 411; tables, 29 plates and 16 figures in the text.

This valuable report is in part the result of a request of the California Water & Forest Association, which also contributed $4,625 towards the expenses of the investigation. In the year 1900, eight eminent irrigation specialists, whose names are given above, were assigned to as many river basins, and Mr. Schuyler reported on a second river. Several of the specialists put assistants into the field. Aside from brief descriptions of numerous irrigation works and some figures on available water supplies and allied subjects, the various reports contain but little matter of a distinctly engineering character. Nevertheless the bulletin will doubtless be welcomed by all careful students of irrigation problems, whether engineers or not. The main object of the bulletin is to set forth as clearly and strongly as possible the need for reform in the laws and practice of water ownership and distribution in California. At the same time other phases of irrigation are shown, particularly the possible wide extension of irrigation, both by preventing or reducing the waste from existing systems and the construction of new works to utilize water now running past immense areas of land which need only irrigation to increase its production many fold. In the general introduction by Mr. Mead these and other interesting facts are emphasized and some of the broad national aspects of the subject are made clear.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

WATER METERS.—Pittsburg Meter Co., East Pittsburg, Pa. Paper; 8 × 11 ins.; pp. 4; illustrated.

A description and price-list of the Pittsburg and Keystone meters.

DUMPING WAGONS.—Whitney Carriage Works, Hornellsville, N. Y. Paper, 4 × 4⅞ ins.; pp. 4; illustrated.

This little catalogue illustrates a double dumping wagon, with steel body and frame, for which the maker claims special advantages.

SERVICE BOXES, ETC.—J. B. Campbell Brass Works, Erie, Pa. Paper; 3½ × 6 ins.; pp. 8; illustrated.

This shows an extension service or curb box, and gives a price list of brass stop cocks.

WATER METERS.—Henry R. Worthington, New York, N. Y. Paper, 5 × 6¾ ins.; pp. 36; illustrated.

The Worthington meter is here illustrated and described, including special forms for various purposes.

WATER METERS.—Pittsburg Meter Co., East Pittsburg, Pa. Paper; 8 × 11 ins.; pp. 4; illustrated.

This circular gives dimensions, prices and weights of various sizes of Keystone meters and sets forth the manufacturer's claims therefor.

PIPE TAPPING MACHINE.—Lennox Machine Co., Marshalltown, Ia. Paper, 3½ × 6 ins.; pp. 16; illustrated.

This contains a description, price-list and testimonials of the Lennox tapping machine.

TRANSFORMERS.—Stanley Electric Mfg. Co., Pittsfield, Mass. Paper; 4 × 9¼ ins.; pp. 16; illustrated.

This pamphlet contains a statement concerning recent litigation over transformers, and also a description of the S. K. C. (oil) lighting transformer.

CAR LIGHTING BY ACETYLENE GAS.—The Railroad Gas Lighting Co., 21 Quincy St., Chicago. Paper, oblong, 6 × 3½ ins.; pp. 24; illustrated.

The generator in this system is situated inside the car, but is charged from the outside. One charge is sufficient for 90 hours' service of the lamps.

TIN-LINED AND LEAD-LINED PIPE.—Lead Lined Iron Pipe Co., Wakefield, Mass. Paper, 5¾ × 8¾ ins.; pp. 16; illustrated.

This is a catalogue and price-list of pipe for water, acids and chemicals, salt water, etc., including soil pipe, flanged pipe, pipe fittings, stop cocks, etc.

CONCRETE MACHINERY.—McKelvey Concrete Machinery Co., 188 Madison St., Chicago, Ill. Paper; 3¾ × 8½ ins.; pp. 8; illustrated.

The concrete machinery here described, illustrated and priced, includes power and hand mixers, special mixers and hoppers, spreading boxes, delivery chutes, etc.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
July 3.	Post office, Fort William, Ont.		June 26
July 3.	School, New York, N. Y.		June 26
July 3.	Dredging, Boston, Mass.		June 26
July 3.	Bridge, Salem, Ore.		June 26
July 3.	Sewer work, Swampscott, Mass.		June 26
	Advertised, Engineering News, June 26.		
July 3.	Sewer, Whitehall, Wis.		June 26
July 3.	Sewerage system, Brockport, N. Y.		June 26
	Advertised, Engineering News, June 26.		
July 3.	Water pipe, etc., Yonkers, N. Y.		June 12
	Advertised, Engineering News, June 12.		
July 3.	Water-works, Oriskany Falls, N. Y.		June 19
July 4.	Abattoir building, Fergus, Ont.		June 26
July 5.	Culvert, Ventura, Cal.		June 26
July 5.	Masonry dam, Dannemora, N. Y.		June 26
July 5.	Electric plant, Monroe, Mo.		June 26
July 5.	Ordnance supplies, Watervliet, N. Y.		June 26
July 5.	Bridge, Hoquiam, Wash.		June 26
July 5.	Sewer bonds, Ronceverte, W. Va.		June 26
July 5.	Road work, Wapakoneta, O.		June 26
July 5.	Water-works, Evansville, Minn.		June 19
July 5.	Road work, Cincinnati, O.		June 19
July 5.	Grading and paving, Cumberland, Md.		June 19
July 5.	Dredging, Mare Island, Cal.		June 5
July 5.	Sewer, Warrensburg, N. Y.		July 3
July 5.	Bridges (11), Warren, Minn.		July 3
July 7.	Jail, Trenton, Mo.		May 29
July 7.	Light-house metal work, Baltimore, Md.		June 12
	Advertised, Engineering News, June 12.		
July 7.	School, Columbia, S. C.		June 19
July 7.	Power plant franchise, Visalia, Cal.		June 19
July 7.	Light-house, Baltimore, Md.		June 19
July 7.	Court house, Woodville, Miss.		June 19
July 7.	School, Alameda, Cal.		June 19
July 7.	Pumps, etc. (w.-w.), Takoma Park, Md.		June 19
	Advertised, Engineering News, June 19.		
July 7.	Masonry dam, Gloucester, Mass.		June 19
	Advertised, Engineering News, June 19.		
July 7.	Main sewer, Washington, Pa.		June 19
July 7.	Garbage plant bonds, Dayton, O.		June 19
July 7.	Bridge bonds, Dayton, O.		June 19
July 7.	Bridges, Davenport, Wash.		June 19
July 7.	Pile bridges (4), Fargo, N. Dak.		June 19
July 7.	Bridge, Toledo, Ore.		June 26
July 7.	Paving, Benton Harbor, Mich.		June 26
	Advertised, Eng. News, June 26 and July 3.		
July 7.	Electric lighting, Plymouth, Pa.		June 26
July 7.	Pumping plant, etc., Lewiston, Idaho		June 26
July 7.	Church, Greensboro, Ga.		June 26
July 7.	Bridges (3), Lexington, Miss.		June 26
July 7.	Paving, etc., Scottdale, Pa.		June 26
July 7.	Macadamizing, etc., Brainerd, Minn.		June 26
July 7.	Bridge, Rome, N. Y.		July 3
July 7.	Library building, Mitchell, S. Dak.		July 3
July 7.	Building, Toronto, Ont.		July 3
July 7.	Electrical machinery, Coraopolis, Pa.		July 3
July 7.	Electric plant, Grand Rapids, Minn.		July 3
July 7.	Sewers, Hampton, Ia.		July 3
July 7.	Paving, Topeka, Kan.		July 3
July 7.	Road work, Paterson, N. J.		July 3
July 7.	Bridge, Ferndale, Cal.		July 3
July 8.	Bridges (8), Winamac, Ind.		July 3
July 8.	Water-works, Ellsworth, Wis.		July 8
July 8.	Iron bridges, Tremont, Pa.		July 3
July 8.	Building, Waverly, N. Y.		July 3
July 8.	Ditch bonds, Crookston, Minn.		July 3
July 8.	Portland cement, New York, N. Y.		July 3
July 8.	Earth work, New Orleans, La.		July 3
July 8.	Bridges (3), Bloomfield, Ind.		July 3
July 8.	Bridges, Albion, Ind.		July 3
July 8.	Bridge, Duluth, Minn.		July 3
July 8.	Sewers, South Bend, Ind.		July 3
July 8.	Sewer, Wilmot, Minn.		July 3
July 8.	Wharf, New Orleans, La.		June 26
July 8.	Sewer work, Saranac Lake, N. Y.		June 26
	Advertised, Eng. News, June 26 and July 3.		
July 8.	Pike road, Cozaddale, O.		June 19
July 8.	Grading, etc., Glenville, O.		June 19
July 8.	Bridge, Lodi, Va.		June 19
July 8.	Bridges (8), New Castle, Ind.		June 19
July 8.	Bridge, Stockton, Cal.		June 19
July 9.	Library, St. John, N. B.		June 26
July 9.	Macadam road, Camden, N. J.		July 3
	Advertised, Engineering News, July 3.		
July 9.	Paving, Louisville, Ky.		July 3
July 10.	Water-works, Gibbon, Minn.		July 3
July 10.	Pumping plant, etc., New York, N. Y.		June 26
July 10.	Clearing reservation, Gt. Diamond Isld, Me.		June 26
July 10.	Main sewer, Cleveland, O.		June 26
July 10.	Bridge, Colendale, Wash.		June 12
July 10.	Post Office, New Iberia, La.		May 29
	Advertised, Eng. News, May 29 and June 5.		
July 10.	Irrigation canal, Eaton, Colo.		June 19
July 10.	Light-house tender, Washington, D. C.		July 3
July 10.	Water-works, Austin, Pa.		July 3
	Advertised, Engineering News, July 3.		
July 10.	Sewers, Buffalo, N. Y.		July 3
July 10.	Sewers, Canton, N. Y.		July 3
July 10.	Copper wire, New York, N. Y.		July 3
July 10.	Sea wall, Albany, N. Y.		July 3
	Advertised, Engineering News, July 3.		
July 10.	Road work, Pittsburg, Pa.		July 3
July 11.	Sewer, Hudson, N. Y.		July 3
July 11.	School, West Springfield, Mass.		July 3
July 11.	Alteration to schools, New York, N. Y.		July 3
July 11.	Bridge work, Buffalo, N. Y.		July 3
	Advertised, Eng. News, July 3 and 10.		
July 11.	Water meters (1,500), San Juan, P. R.		June 26
	Advertised, Engineering News, June 26.		
July 11.	Sprinkling trucks, New York, N. Y.		July 3
July 11.	Electric crane, Chicago, Ill.		July 3
July 12.	Water tank, pump, etc., Aspinwall, Pa.		July 3
July 12.	Bridge, Dayton, O.		June 26
	Advertised, Eng. News, June 26 and July 3.		
July 12.	Library, Santa Ana, Cal.		June 26
July 12.	Coal handling plant, Bremerton, Wash.		June 5
July 12.	Bridge work, Cincinnati, O.		July 3
July 12.	Pile bridge, Mt. Vernon, S. Dak.		July 3
July 12.	Sidewalks, curbing, Red Jacket, Mich.		July 3
July 12.	Library building, Grand Forks, N. Dak.		July 3
July 14.	Bridge, Winona, Minn.		June 19
July 14.	Dam works, Wheeling, W. Va.		June 19
	Advertised, Eng. News, June 19 to July 17.		
July 14.	Macadamizing, Morristown, N. J.		June 26
July 14.	Paving, etc., Warren, Pa.		June 26
July 14.	Paving, Toledo, O.		June 26
July 14.	Alterations to schools, New York, N. Y.		July 3
July 14.	Building, Jacksonville, Ill.		July 3
July 14.	Road roller, Pasadena, Cal.		July 3
July 14.	Coal, New Orleans, La.		July 3
July 14.	Bridges (3), Vidalia, La.		July 3
July 14.	Bridge, Mendota, Ill.		July 3
July 14.	Bridge work, Mankato, Minn.		July 3
July 15.	Pile bridges (8), Fargo, N. Dak.		July 3
July 15.	Bridge repairing, Hillsboro, N. Dak.		July 3
July 15.	Garbage disposal, Newark, N. J.		July 3
	Advertised, Eng. News, July 3 and 10.		
July 15.	Filtration plant, Providence, R. I.		July 3
	Advertised, Eng. News, July 3 and 10.		
July 15.	School, Clinton, La.		July 3
July 15.	Road bonds, Walker, Minn.		July 3
July 15.	Extending w.-w., Independence, Wis.		June 26
July 15.	Sewers, Bronxville, N. Y.		June 26
	Advertised, Eng. News, June 26 to July 17.		
July 15.	Sewer system, Chamberlain, S. Dak.		June 26
July 15.	Guard cribs, Charleston, W. Va.		June 26
July 15.	Sewers, New Brighton, Pa.		June 26
July 15.	Main sewer, Cleveland, O.		June 26
July 16.	Electric plant, Norristown, Pa.		June 26
July 16.	Water-works, Pierce, Neb.		May 22
	Advertised, Eng. News, May 22 and 29.		
July 16.	Bridge bonds, Columbus, Ga.		July 3
July 16.	Sewers, Burlington, Ia.		July 3
July 16.	Levee, Alexandria, La.		July 3
July 16.	Water-works, Paulding, O.		July 3
July 17.	Jail work, Mansfield, O.		July 3
July 17.	Sewer outlet, Cleveland, O.		June 26
No date.	Harbor work, Port Adelaide, S. Australia.		Apr. 24
No date.	Railway work (T. & N.), Galveston, Tex.		June 26
No date.	Water-works, Bartlett, Tex.		July 3

RAILWAYS.

ARCADIA R. R.—This company has been formed by the business men of Arcadia, La., for the purpose of building a line of railway to intersect the Beardsley road at a point about six miles from Arcadia. The capital stock is $50,000; work will begin when $10,000 of this is paid in. Capt. James Brice is Pres.

BIG SANDY, EAST LYNNE & GUYAN.—This company has been incorporated in West Virginia with a capital stock of $500,000 to build a line from the mouth of White's Creek, on the West Virginia side of the Big Sandy River to Logan. The company's headquarters will be at Wayne, W. Va. J. B. Miller, Radford; B. J. Prichard, Wayne, and W. P. Ferguson, Kenova, are incorporators.

CANADIAN PACIFIC.—C. W. Spencer, Gen. Mgr. Eastern Division, is reported to have stated that surveyors are now at work on the three projected lines from the Pontiac & Pacific Ry. Estimates of the costs of constructing the different lines are made. Connection will be made with the main line at Renfrew, Cobden or Pembroke. Work will commence as soon as a final decision is made. ——An inspection of the Ontario & Quebec Division has been made by D. McNicoll, Gen. Mgr., and B. H. McHenry, Ch. Engr., and as a result the reduction of gradients and other improvements will be undertaken at once.

CARTHAGE & WESTERN.—The secretary of state of Missouri has issued a charter to this company with a capital stock of $270,000. The proposed line will be built from a point on the Lexington & Southern Division of the Missouri Pacific at Carthage, thence through Jasper county, having an estimated length of 18 miles. Guy Phillips, Yonkers, N. Y.; George J. Gould, Lakewood, N. J., and Russell Harding, St. Louis, are incorporators.

CHICAGO, ILL.—The city council passed a track-elevation ordinance on June 23, which provides for the elevation of some 92 miles of tracks and for elimination of 36 grade crossings and four viaducts, at an estimated cost of $3,500,000. The Chicago, Burlington & Quincy, the Chicago & Northwestern and the Chicago Terminal Transfer companies each will elevate three miles of double-track roadway from Western Ave. to Canal St. The Panhandle and Chicago Junction Ry. companies each are to elevate for two miles from 12th St. to 39th St., in conjunction with the other three companies.

DAWSON SPRINGS MINIATURE RY.—Articles of incorporation have been filed by this company in Kentucky to build a line from the New Central Hotel, Dawson Springs, Ky., down the hollow through Benjamin Franklin's Field to the Tradewater River. The road will soon be built. Geo. C. Sandifer is Pres. and Gen. Mgr.

DULUTH & NORTHERN MINNESOTA.—A consignment of 600 tons of steel rails has been received by the company, and will be used to extend the line to a point 50 miles northeast of Knife River, in Minnesota, the southerly terminus. The grading has already been finished and 18 miles of steel will be laid before the hauling operations are begun. John Millen is Vice-Pres. and Gen. Mgr., Duluth, Minn.

EAST ST. LOUIS & LAKE SHORE.—Incorporated in Illinois, with a capital stock of $2,400, to build a line from East St. Louis, Ill., to Hardin, Calhoun county. Wm. Ortgier and Wm. R. Drummond, East St. Louis, and Joseph Locatel, St. Louis, Mo., are directors.

ELK VALEY & MIDLAND.—Incorporated in West Virginia to build a line from Centralia to Pocahontas county, W. Va. The capital stock is $50,000. John T. McGaw, Grafton; George W. Curtain, Sutton, and C. P. Dorr, Addison, are incorporators.

INDIAN CREEK VALLEY R. R.—This company has been chartered in Pennsylvania, and will build a railway from the mouth of Mill Run into Springfield township, Fayette county; also into Westmoreland county. The capitalization is $1,500,000. W. A. Kalp, Mt. Pleasant, is Pres.

INTERNATIONAL & GREAT NORTHERN.—The branch running from Round Rock north to Georgetown, Tex., it is reported, will be extended northwest to Vernon, a distance of 200 miles, and that the preliminary survey is now under way. J. D. Trammel is Ch. Engr., San Antonio. The company has closed an agreement with the citizens of Dallas, Tex., to construct a branch line from Ft. Worth Division at a point north of Italy to Dallas, about 40 miles. The branch may be built via Waxahachie and Lancaster, but the route is not definitely decided on.

IOWA & ST. LOUIS.—Geo. H. Coles, Ch. Engr., Centerville, Ia., writes us that the location has been made and right of way secured from Centerville to Macon, and the grading is completed and steel being laid from Centerville to Novinger, 60 miles. The contract for the section between Novinger and Macon has been let to the Girod Construction Co., of Chicago. The capital for the construction of the entire line, which will extend from Sioux City, Ia., to St. Louis, Mo., a distance of 300 miles, is provided. The road will use five engines. H. F. Rodrig is Pres., Kansas City, Mo.

JAMES RIVER R. R.—This company was organized at Portsmouth, Va., on June 21, with a capital stock of $10,000,000. The company will operate under a charter previously obtained, which authorizes the building of a road as far as the West Virginia line through Smithfield, Suffolk and Richmond. It is stated that the construction of the line will follow the first step towards tapping the coal field of West Virginia.

LEHIGH VALLEY R. R.—It is reported that this company will build a line from Ithaca, N. Y., to Syracuse in the near future. The right of way for about the entire distance has been secured. W. G. Berg is Ch. Engr., Havemeyer Bldg., New York.

MADRID R. R.—Incorporation papers have been filed by this company in Maine to maintain and operate a narrow-gage system from Phillips to Township, in Franklin county, a distance of 6½ miles. The capital stock is placed at $21,000. Fletcher Pope, Sidney G. Haley and Harry B. Austin, Phillips, are directors.

MANCHESTER, DORSET & GRANVILLE.—A charter has been granted to this road in Vermont for the construction of a line through the points named. The capital stock is $350,000. Surveyors will begin at once on the work. The line will run over easy grades through farming districts for a distance of 23 miles, and is expected to be finished to a point near Dorset before winter. S. H. West, Dorset; H. A. Walker, Manchester, Vt., and John L. Behneke, Massachusetts, are interested.

MIDDLE BROOK & GRANITEVILLE.—A certificate of incorporation has been secured in Missouri to build a line from a point above Middle Brook, in a westerly direction through Iron county, a distance of 2.78 miles, to Graniteville. The capital stock is $30,000. W. R. Allen and C. E. Withall, St. Louis, Mo., and W. R. Allen, Jr., and F. T. Walsh, Graniteville, are incorporators.

MOUNT ROGERS & EASTERN.—Reports from Danville, Va., states that the company will put a force of 200 hands on the construction of the line, which will run from Mt. Rogers to tide water in Virginia.

NEW BRUNSWICK COAL & RY. CO.—The tender of the Barnes Construction Co. for the construction of the extension of the Central Ry., from the Newcastle coal fields to Gibson, on the Canada Eastern, has been accepted by the company. Work will be started at once. James Barnes, M. P. P., Bouctouche, is at the head of the construction company.

ORANGE & NORTHWESTERN.—This company has filed an amendment to its charter providing for the construction of 350 miles of additional road. The extensions named in the extended charter are to be made from a point on its line in Jasper county to Marshall, Tex., a distance of 150 miles, and from Buna, Tex., to Corsicana, a distance of 195 miles; also from Orange to West Orange, a distance of five miles.

PARK ELEVATED R. R. OF ST. LOUIS.—The secretary of state of Missouri has issued a charter to this company, with a capital stock of $12,000. It is stated that the road to be built will run from Broadway, St. Louis, Mo., to the World's Fair site, with possible extensions into the county. Chas. Green, W. P. Kearney and E. C. Slewin are interested.

SIOUX FALLS & MADISON.—Incorporated in South Dakota with a capital stock of $2,600,000. The line is to be 50 miles in length, running through Minnehaha and Lake counties. George Schlosser, A. L. Wenzer and Lee Frudenfeld are directors.

SOUTHERN PACIFIC CO.—The matter of building an extension across country from either Mountain View or Sunnydale to Saratoga and thence to either Los Gatos or Campbell is now under consideration.

TALLAHATTA R. R.—Application has been made in Tennessee for a charter for a line from Chunkey Station, in Newton county, along the line between Newton and Lauderdale counties, and thence through Neshoba county to Louisville. The road is to be chiefly a logging line. James Meehan, of Milwaukee, Wis., one of the incorporators, proposes to build a lumber plant at the terminus. The grading is said to be well under way. J. H. Wright, Meridian, and S. R. Rounds, Siding, Miss., are also interested.

STREET AND ELECTRIC RAILWAYS.

GARDINER, ME.—Geo. W. Heselton, of Gardiner, writes that the preliminary surveys of the line of the Gardiner St. Ry. have been started, and as soon as the State Railroad commission approves the location the construction will be started. The line will be four miles in length. Freeman Patten is Pres.

CLAREMONT, N. H.—E. B. Haywood, Claremont, writes that surveys have been made and the rights of way granted for the line of the Claremont Ry. & Lighting Co. The entire capital is provided for, and the company is now ready to contract the materials needed for the construction of the road, which will be about 18 miles long, and operated by electricity. H. R. Beckwith is Pres., Claremont, and G. H. Swazey, Ch. Engr., 53 State St., Boston, Mass.

ATTLEBORO, MASS.—The Norton & Taunton St. Ry. has asked the railroad commissioners for permission to extend its line through the towns of Rehoboth and Seekonk.

ROCKAWAY BEACH (L. I.), N. Y.—The Ocean Electric R. R. Co. has applied to the board of aldermen for an extension of its line south from Hammell's to the Boulevard, thence to Rockaway Park and the western terminus of the Long Island R. R.

ALLENTOWN, PA.—The Blue Ridge Traction Co. has filed articles of incorporation with a capital stock of $50,000 to build a road about eight miles long from Slatington, through Walnutport, thence to Berlinsville, Harper's, Danielsville and Klecknersville. J. S. Mayer, Bethlehem; Frank Jacobs and Herbert P. W. Muse are interested.

CHAMBERSBURG, PA.—The council has granted a franchise to Stephen S. Emery, of Bethlehem, to build an electric line in this place. Mr. Emery is President of the Norristown & Landsdowne Electric Co. Work will begin within 60 days.

DANVILLE, VA.—The directors of the Danville Ry. & Electric Co. have decided to extend the line to Green Hill Cemetery, the work to begin as soon as the necessary materials can be purchased. J. M. King is Ch. Engr.

SUMMERVILLE, S. C.—Robt. J. Smith, Pres., Summerville, writes that the Magnola Traction, Light & Power Co. will be ready to let contracts for the construction of its electric railway running from this city to Charleston early in July. The distance is about 22 miles. Surveys have been made and rights of way secured, as has also been the funds for construction. H. L. Johnston is Ch. Engr., Troy, O.

NEW ORLEANS, LA.—Dr. Armand Mary is promoting a scheme to build an electric railway system that will connect Napoleonville, Donaldsonville, Baton Rouge and the new river section of Louisiana. A company will be organized with a capital stock of $2,000,000 to build the road. It is expected that work will be started on the road as soon as preliminary arrangements can be completed.

THIBODAUX, LA.—C. P. Young, Ch. Engr., New Orleans & Southwestern R. R., Thibodaux, writes us that contracts have already been let for the construction of the company's 175 miles of electric railway, running from New Orleans to Hahnville, Vacherie, Thibodaux, Schriever and other points. The contract for the roadbed is in the hands of Bryan & Turner, contractors, Memphis, Tenn. Heine boilers will be used by the company, engines from the Fulton Iron Works, Bullock dynamos, General Electric motors, Worthington condensers, and wire from the American Steel & Iron Co. The preliminary work is finished. C. P. Shaver is Pres.

CHATTANOOGA, TENN.—J. H. Warner, of the Chattanooga Electric Ry. Co., states that the survey for the line up Lookout Mountain has been completed and show a line 3,375 ft. in length. The maximum grade will be 42° and the average grade 22°. If the proposed line is built, it will be operated electrically.

FRANKFORT, KY.—The Ohio Valley Traction Co. has been incorporated with a capital stock of $30,000 to build a line of railway from Milton through Trimble, Carroll, Gallatin, Boone and Kenton counties to Cincinnati. The company's offices will be located at Carrollton. Albert S. Berry, Newport; and J. E. Grobmeyer and J. M. Giltner, Carrollton, are incorporators.

HOPKINSVILLE, KY.—This city is in need of an electric street railway, and the council will dispose of franchises for the same on liberal terms. Address H. H. Abernathy, Secy., Commercial Club.

CINCINNATI, O.—The Cincinnati, Georgetown & Portsmouth Ry., a steam road, 40 miles in length, is shortly to be converted from steam to electric traction. The Tennis Ry. Equipment Co., which has the contract, has recently purchased two 600-K-W. A. C. Westinghouse generators and a number of 300-K-W. rotary converters for supplying current to the line.

CINCINNATI, O.—The Cincinnati Traction Co. has applied to the B. P. S. for permission to change or reconstruct the tracks and operate by electricity instead of cable the line from McGregor Ave. to Shillito and Rockdale Aves.

CLEVELAND, O.—Articles of incorporation have been filed by the Cleveland & Richfield Transit Co. for the purpose of building an electric line from this city through Independence, Brecksville, Richfield, Bath Hammond's Corners, Ghent, Montrose into Akron. Some franchises have already been obtained and applications made for others. Construction has already been started upon the private right of way between Independence and South Brooklyn, and, it is said, work will be pushed as rapidly as possible. F. W. Green, S. P. Suman and C. T. Suman are incorporators.

MANSFIELD, O.—W. W. Stark, Pres. Mansfield, Mt. Gilead & Delaware Electric Ry., Mansfield, informs us that the company is now ready to arrange with engineers for the survey of its line. The rights of way are already provided for. The line will be 50 miles in length, running through Mansfield, Lexington, Williamsport, Mt. Gilead, Cardington, Ashley and other towns to Delaware.

EVANSVILLE, IND.—E. H. Pfoffler, Ch. Engr., Evansville & Terre Haute R. R., Evansville, under date of June 24 writes that the contract for the line to Jasonville, Greene county, a distance of about 4½ miles, will be let July 1.

FORT WAYNE, IND.—The Fort Wayne & Southwestern Traction Co. has filed a mortgage for $2,000,000 in favor of the State St. Trust Co. of Boston, to secure bonds, to be held to cover future extensions.

FRANKLIN, IND.—The Franklin Southwestern Traction Co. has been incorporated, with a capital stock of $10,000, to build an electric line connecting Franklin, Trafalgar, Ninevah, Morgantown and Nashville, establishing street railway systems in each of those towns now without railway facilities and purchasing the systems already in operation for the purpose of consolidating all into one system. Carl E. Willan, Herbert M. Fisher and John E. Jolliffe are interested.

LEAVENWORTH, IND.—The Leavenworth Electric Ry. Co. has been incorporated with a capital stock of $10,000 by T. P. Ellsworth, H. H. Setser and Oliver E. Hawn and others of that place. The object of the company is to take preliminary steps for constructing an electric railway from Leavenworth to New Albany, touching at Corydon and other towns along the route.

CHICAGO, ILL.—The Chicago City Ry. Co. has purchased ground at Emerald Ave. and Halstead and 39th Sts., and will build a power plant there. W. Walmsley is Supt., 164 Dearborn St.

VINTON, IA.—The Vinton, Belle Plaine & Independence Interurban Ry. Co. has recently filed articles of incorporation. This company has for its purpose the construction of an electric railway from here to Belle Plaine, by way of Van Horn and Keystone, 32 miles, and also from Vinton by way of Urbana or Brandon to Independence, 30 miles northeast. The capital stock is $25,000. Geo. D. McElroy and John Lorenz, Vinton, and Arthur R. Jones, Chicago, are interested.

ST. JOSEPH, MO.—The preliminary survey for the Kansas City, Parkville & St. Joseph Electric line was begun on June 19, starting at this city. The new line will connect the lines of this city with the lines at South St. Joseph, and the line to Kansas City will pass through Kenmoor, De Kalb, Weston, Beverly Junction and Parkville. W. B. Hazen, Civil Engr., is in charge of the surveys.

DAYTON, WASH.—The council has granted a franchise to Mellman & Romo for the establishment of an electric railway line through the streets of this city for a period of 50 years. Work on the line must begin within six months and be completed within two years.

PORTLAND, ORE.—It is stated that the Portland & Oregon City R. R. Co. will soon expend $5,000,000 upon a new system of trolley roads, the trunk line of which will extend from this city to Springwater, Clackamas county, 35 miles away. By July 15 the actual construction is to be started.

SANTA ROSA, CAL.—S. N. Griffith was recently in this town in the interest of himself and others to look over the city with a view of establishing an electric street railway.

PROVO, UTAH.—The council has received a petition from Reed Smoot, Jesse Knight, C. E. Loose, George Havercamp and S. R. Thurman for a franchise over the streets and highways for an electric railway and telephone system.

LIGHT, HEAT AND POWER PLANTS

WINDSOR, CONN.—Hinsdell Parsons, of New York, has purchased the property of the Eddy Electric Co. for $35,000.

BATAVIA, N. Y.—The Consolidated Gas & Electric Co., New York, is reported as awarding contracts for the new electric plant, to have a capacity of 600 HP.

BINGHAMTON, N. Y.—The Binghamton Light, Heat & Power Co. will increase its capital from $500,000 to $650,000 and issue $500,000 in new bonds, of which about $250,000 will be used for improving the plant. Col. Geo. W. Dunn is Pres.; S. P. Hunt is Supt.

LOCKPORT, N. Y.—The time for the Niagara, Lockport & Ontario Power Co. to deposit $500,000 as bond to begin work on the proposed power canal expired July 1 and no deposit has been made. An extension of time to Jan. 1, 1903, has been granted. About $4,000,000 has so far been subscribed to the work. Address P. F. King.

PHILLIPSBURG, N. J.—The Imperial Power Co. is reported as arranging to build three dams and a power plant at Foul Rift on the Delaware River near here. Bids for 70,000 ft. of lumber are being considered. Howard Mutchler, of Easton, Pa., is interested.

CORAOPOLIS, PA.—Bids are asked until July 7 for furnishing a 150-K-W. alternator, two automatic engines, a 200-HP. water tube boiler, etc., for the electric plant. A. P. Cox, Chn. Com.

EASTON, MD.—The Easton Light & Fuel Co. has completed arrangements for taking over the light plant here and for making improvements. Fred. R. Owen is Secy., Denton, Md.

RICHMOND, VA.—The council proposes to build a new gas holder in the West End. Other improvements to the gas plant, costing $60,000, are being made.

GRAFTON, W. VA.—The Grafton Gas & Electric Light Co. has decided to extend its plant by adding a new 120-K-W. generator, a 200-HP. engine and a 150-HP. boiler.

MORGANSTOWN, W. VA.—The Union Gas & Water Co., it is stated, proposes to improve the gas plant and waterworks, at a cost of about $250,000.

WELSH, W. VA.—W. Clyde Wilkins, of Pittsburg, Pa., is preparing plans for an electric plant for the U. S. Coal & Coke Co. He has let the contract for 950 coke ovens.

HALL'S FERRY, N. C.—We are informed that the date for letting the contracts for building the dam and power plant of 25,000 HP. capacity at Hall's Ferry for the Whitney Reduction Co., of Pittsburg, Pa., have not yet been let. The plant will consist of a masonry dam 38 ft. high, containing 60,000 cu. yds. of granite masonry, a canal 4.5 miles long, about 1,000,000 cu. yds. of excavation, 6,000 lin. ft. of 8-ft. penstock, 116 ft. working head, ten 2,000-K-W. A. E. generators, direct-connected to turbines, etc.; estimated cost, $2,250,000. J. J. Kennedy, Des. Engr., 52 Broadway, New York.

McRAE, GA.—This place has voted to issue bonds for an electric plant and water-works.

OCALA, FLA.—M. Fishel, Mayor, writes us that bids will be wanted in about 40 days for constructing an electric plant, to cost about $15,000.

TALLAHASSEE, FLA.—Reports state that the council will ask for bids at once for an electric plant.

PRATT CITY, ALA.—The city proposes to put in an electric plant and city hall, at a cost of about $50,000.

TALLADEGA, ALA.—The light and water commission is arranging to make improvements to the gas works.

LEBANON, TENN.—We are informed that Jay E. Mott & Co., of Huntington, Ind., has been awarded the contract, at $4,911 for improving the electric plant. Granberry Jackson, Engr., Tullahoma, Tenn., and Nashville.

NASHVILLE, TENN.—The Cumberland Electric Light & Power Co. has been granted a permit to build a power house, at a cost of $40,000.

LOUISVILLE, KY.—The board of works will soon ask for bids for the purchase of a franchise for an electric plant in the central part of the city.

FREMONT, O.—A. J. Krigsley, of Circleville, O., has asked for a franchise for a gas plant here for the Logan Natural Gas & Fuel Co. The company is building a main and plants from Bucyrus to Mansfield, at a cost of about $2,000,000.

ELWOOD, IND.—W. H. Schott, of Chicago, Ill., has been awarded the contract for a hot water heating plant by the Elwood Electric Light Co.

CHICAGO, ILL.—The Oak Park Yaryan Co. has issued $500,000 of 5% bonds for extending the Oak Park heating plant, according to reports.

DIXON, ILL.—The question of selling the plant and property of the Dixon Power & Lighting Co. is being considered by F. A. Watson, Pres. The new owners would at once begin the construction of a new dam, to cost $38,000, and a gas plant, to cost $60,000. E. P. Maxwell is Supt.

EDWARDSVILLE, ILL.—Reports state that J. F. Porter, of Alton, Ill., proposes to build a gas plant here.

WATERLOO, IA.—Bids are asked until July 11 for a power house and stack for the public schools. Ira Rodamar, Secy. School District.

GRAND RAPIDS, MINN.—Bids are asked until July 7 for an electric plant, to cost $25,000. E. P. Burch, Engr., 1210 Guaranty Bldg., Minneapolis; F. R. King, Cy. Recdr.

SAUK RAPIDS, MINN.—L. Lindower, of Grand Rapids, Minn., is reported as completing plans for a power dam across the Mississippi River.

GRAND ISLAND, NEB.—C. A. Baldwin, Cy. Engr., writes us that this city is considering the matter of building an electric plant, to cost about $9,000.

STROMBURG, NEB.—J. B. Buckley and F. E. Holden have formed a company to build an electric plant, to cost about $15,000.

BRYAN, TEX.—Sam M. Winters has been granted a franchise for an electric plant.

VANCOUVER, WASH.—We are informed that the following bids were received recently for the purchase of a 25-year franchise for an electric plant (ten years are to be exclusive), together with six arc lights; new plant to be completed by Oct. 1: J. R. Harvey, Vancouver, Wash., $11,000, $4.67 per month each; I. N. Gray, Vancouver, $11,000, $5.75; H. C. Schade, Portland, Ore., $10,487, $5.75.

PORTLAND, ORE.—The Highland Bar Mining & Electric Co. will soon begin work on a large power plant. The company will dam the Boise River, in the canyon where the river has a rock bottom, with granite and basalt banks. The dam will be built 12 ft. above high water, and will be of a substantial and permanent character. It is estimated that fully 20,000 HP. can be generated whenever it is needed. Turbine water wheels will be put in, which will be connected with large dynamos of the latest pattern. The power will be used to work the Highland Bar placers, owned by the company, as well as to supply power for the entire Neal district in Idaho.

CORONA, CAL.—An election will probably soon be held to vote on the question of issuing $20,000 in bonds for an electric plant. Address H. C. Foster.

LOLETA, CAL.—Reports state that the North Pacific Investment Co. is planning to begin the construction of its proposed power plant on the Van Duzen River within 60 days; estimated cost, $500,000. C. A. Baird, of Eureka, Cal., may be addressed.

PHOENIX, ARIZ.—Dr. A. J. Chandler, of Mesa City, Ariz., is reported as organizing a company to build a plant to generate power at Kanab, Wash., about 60 miles from Williams.

TUSCARORA, NEV.—S. B. Milner, Pres. Dexter Co., and A. C. Milner, both of Salt Lake City, Utah, propose to build a power plant at this place for the Shoshone Falls Electric Power Co.

WEISER, IDAHO.—An election will soon be held to vote on the question of issuing $40,000 in bonds for an electric plant and water-works.

BINGHAM CITY, UTAH.—This place has voted to issue $30,000 in bonds for an electric plant.

PETERBORO, ONT.—The Burleigh Falls Power Co. has purchased the Buckhorn Falls, where it is proposed to build a 5,000-HP. plant. J. Alex. Culverwall is Pres.

BRIDGES.

ST. ALBANS, VT.—Press reports state that plans are being made by the engineering staff of the Central Vermont R. R. for steel bridges to replace the stone culverts washed away by the recent high water at Middlesex and Waterbury.

LAWRENCE, MASS.—Arthur D. Marble, Cy. Engr., writes us in regard to reported project for another bridge across the Merrimac River, stating that the city hopes to obtain possession of the present railroad bridge, in which case there would be no new bridge.

PROVIDENCE, R. I.—The council has passed a resolution directing the construction of a bridge over the Woonasquatucket River at Eagan St.; estimated cost $70,000.

BUFFALO, N. Y.—The council committee on bridges has voted to award the contract for the South Michigan St. lift bridge to the Owego Bridge Co. for $57,000. Public Works Commissioner Ward is to decide whether steam or electricity is to be used as the motive power.

BUFFALO, N. Y.—Bids are asked until July 11 for cleaning by sand blast and painting about 100,000 sq. ft. of structural steel viaducts, as stated in our advertising columns. Francis G. Ward, Comr. Pub. Wks.

MONTGOMERY, N. Y.—Press reports state that the suit of Wm. H. Didsbury against the members of the town board and the United Construction Co., of Albany, to restrain them from carrying out the contract for the construction of a bridge across the Wallkill River, has been postponed for two weeks. The bridge contract price was $9,400, and it is alleged that this price is excessive and that the contract was awarded without competition.

ROME, N. Y.—Reports state that bids are asked by the common council until July 7 for constructing a bridge across the Mohawk River at East Dominick St. Jay Capron, Cy. Engr.

HACKENSACK, N. J.—The contract for the Passaic River bridge at Clifton Ave. has been let to Frank R. Long & Co. for $88,900.

IRWIN, PA.—Engineer J. J. Neel has reported in favor of building a 135-ft. bridge over Sewickley Creek, near Grailstown, the cost of which is estimated at $11,400.

TREMONT, PA.—Local reports state that bids are asked until July 8 for constructing two iron bridges and foundations. J. H. Faust, Secy.

WASHINGTON, D. C.—The sum of $100,000 is appropriated in a senate amendment for beginning the construction of the Potomac River memorial bridge. The bridge complete is to cost not more than $2,500,000.

LURAY, VA.—This town, according to reports, is considering the question of a new bridge to be constructed by the money left over from the water-works bond issue.

RICHMOND, VA.—Plans for the Marshall St. viaduct have been completed by City Engineer Cutshaw, and the matter has been before the council for discussion. The cost of the work is estimated at over $100,000.

MIDDLEBOURNE, W. VA.—The contract for the stone work and fills complete of the Shiloh bridge has been let to B. F. Pipes for $5,175, and the contract for the iron superstructure to the Riverside Bridge & Machine Works, wheeling, for $3,737.

CHARLESTON, S. C.—A bill has been passed by the house of representatives authorizing the Charleston, Suburban & Summerville Bridge Co. to build two bridges across the Ashley River.

COLUMBUS, GA.—Bids are asked until July 16 for the purchase of $40,000 of bonds, voted for building a steel highway bridge across the Chattahoochee River. L. H. Chappell, Mayor.

CONWAY, FLA.—Reports state that E. T. McNeill, Gen. Manager, Conway & Seashore R. R., has negotiations pending for a bridge with a 60-ft. draw, to be constructed in accordance with recent permission of Congress.

VIDALIA, LA.—Reports state that bids are asked by the Concordia Parish police jury until July 14 for constructing three steel bridges. Jas. P. Fagin, Pres.

BIRMINGHAM, ALA.—Julian Kendrick, Cy. Engr., writes us that the bridge work for this city, referred to in our last issue, is merely the construction of wooden trestle.

AKRON, O.—Local press reports state that the contract for improving Falor St., including the construction of Falor St. bridge across the canal, has been let to J. M. Davidson. Bonds of $25,000 for doing this work have recently been sold.

CHILLICOTHE, O.—Reports state that bids are to be opened about July 20 for a bridge over Walnut Creek in Liberty township.

CINCINNATI, O.—Bids are asked until July 12 for constructing north approach and substructure of the Duck Creek bridge, Fairview Ave., Columbia township. Eugene L. Lewis, Co. Audr.

CLEVELAND, O.—According to reports, the Northern Traction Co. is to construct a high level bridge over the gorge at Cuyahoga Falls, at a cost of $50,000.

YOUNGSTOWN, O.—The contract for six county bridges has been let to Hamilton Harris for a total of $1,757.

ALBION, IND.—Reports state that bids are asked until July 8 for constructing several steel and stone bridges. Thos. A. Huston, Co. Audr.

BLOOMFIELD, IND.—According to reports, bids are asked by the county commissioners until July 8 for the construction of two 40-ft. steel span bridges and one 20-ft. steel beam bridge with stone abutments. Harvey J. Doney, Co. Audr.

DANVILLE, IND.—The contract for three steel bridges for Grant township has been let to the Attica Bridge Co., Attica, Ind., for $1,791.

INDIANAPOLIS, IND.—Bids are asked until July 18 for constructing a stone or concrete bridge over Grassy Creek in Perry township. Harry R. Smith, Co. Audr.

ROCHESTER, IND.—The Rochester Bridge Co. has recently been incorporated with a capital of $30,000.

SOUTH BEND, IND.—The contract for constructing the East Colfax Ave. race bridge and the Pennsylvania Ave. culvert has been let to Fred Hoffman for $8,495 for the bridge and $2,850 for the culvert.

WINAMAC, IND.—Reports state that bids are asked by the Pulaski county commissioners until July 8 for constructing nine iron bridges and repairing the Warren River bridge. Jas. N. Hayworth, Co. Audr.

CHICAGO, ILL.—Bridge Engineer Pihlfeldt, according to local press accounts, has made plans for a pontoon bridge to cost $4,400 for the North branch of the Chicago River at Western Ave.

CHICAGO, ILL.—Bids are asked until July 28 for constructing foundations for five locks and one aqueduct bridge, the walls for eight locks, and the piers and abutments for five aqueduct bridges and one highway bridge, as is stated in our advertising columns. Maj. J. H. Willard, U. S. Engrs.

MENDOTA, ILL.—According to reports, bids are asked until July 14 for constructing a steel bridge across the creek at Fourth Ave. George Holland, Cy. Clk.

PARIS, ILL.—A bridge is to be built over Clear Creek, jointly by the Edgar county and Vigo county (Ind.) officials.

PEKIN, ILL.—Reports state that the county commissioners have been asked to aid the township in building a $3,000 iron bridge over Lick Creek.

DULUTH, MINN.—Local press reports state that bids are asked until July 8 for constructing a one-span 180-ft. steel bridge across Cloquet River on the Swan Lake Road. O. Halden, Co. Audr.

MARINETTE, WIS.—Reports state that the county board has decided to build in conjunction with the town of Amberg a $2,000 iron bridge across the Pike River.

MILWAUKEE, WIS.—City Engineer Poetsch has recommended that a bridge be erected across the Milwaukee River at Wright St. at an estimated cost of $125,000; bridge to be 1,200 ft. in length, of which 455 ft. would be approaches.

PRAIRIE DU CHIEN, WIS.—The Wisconsin River bridge at Bridgeport has been sold to John Bielok for $9,000. The bridge was built in 1857 at a cost of $27,000.

DUBUQUE, IA.—A local press report states that 30 bridges were destroyed in Dubuque county this spring by the high water.

ELDORA, IA.—Reports state that a steel bridge is to be built across the creek, connecting this city with the industrial school.

BRECKENRIDGE, MINN.—The contract for a bridge across Otter Tail River has been let to the Hewett Bridge Co., Minneapolis, Minn., for $4,000.

MANKATO, MINN.—Press reports state that bids are asked until July 14 for constructing bridge across Madison Lake outlet, two stone piers for present iron bridge in Judson and new steel bridge over Maple River in Mapleton. Edgar Weaver, Co. Audr.

MONEYCREEK, MINN.—Subscriptions are being taken for the construction of a bridge across Root River near the Norman Perkins route crossing.

WARREN, MINN.—Press reports state that bids are asked until July 5 for constructing ten truss bridges and one pile bridge. A. B. Nelson, Co. Audr.

OMAHA, NEB.—The house of representatives has passed a bill authorizing the construction of a pontoon bridge across the Mississippi River between Cass county, Neb., and Mills county Ia.

MT. VERNON, S. DAK.—Bids are asked until July 12 for constructing a 40-ft. pile bridge. H. B. Anderson, Co Audr.

FARGO, N. DAK.—Bids are asked, according to reports, until July 15 for the construction of eight pile bridges. O. J. Olson, Co. Audr.

HILLSBORO, N. DAK.—Reports state that bids are asked until July 15 for material and labor for repairing various county bridges. Oluf Hagen, Co. Audr.

HAMILTON, MONT.—A press report states that the contract for rebuilding the Harlan bridge across the Bitter Root River at Como will be let July 7. Bridge is to be of wood and iron, with 32-ft. approach on one side and 80-ft. on the other.

HELENA, MONT.—The county commissioners, according to a local press report, are calling for bids until July 19 for constructing a bridge across the Missouri River at Craig. The bridge will probably cost about $10,000. J. H. Farmer is Co. Surveyor.

ST. CHARLES, MO.—We are informed that the contract for constructing a bridge for the St. Louis Counties Bridge Co. across the Missouri River at this city has been let to the Midland Bridge Co., Kansas City, Mo. The bridge proper is to consist of three 416-ft. through spans and one 300-ft. through span, all of steel, and resting on five steel cylinder piers. In addition, there will be a steel span over Main St. and several hundred feet of timber trestles and approaches. The bridge superstructure will require 1,600 tons of steel and the substructure will require 450 tons. The total cost of the bridge and approaches will be over $300,000. Waddell & Hedrick, Consult. Engrs., 608 New Nelson Bldg., Kansas City, Mo., prepared the plans and will supervise the construction.

ST. LOUIS, MO.—Ordinances have been approved for the reconstruction of the present roadway floors of the Grand Ave. bridge, estimated cost, $4,500; 21st St. bridge, $4,500, and 18th St. bridge, $3,000.

BAY CITY, TEX.—An issue of $23,000 of Matagorda county bridge bonds has just been sold.

HONDO, TEX.—Medina county has voted in favor of a $30,000 bond issue for a bridge at Castroville.

PORTLAND, ORE.—Wm. B. Chase, Cy. Engr., writes us that two spans of the Madison St. bridge and about 500 ft. of the approaches were destroyed by a fire June 21. The cost of repairing the bridge, according to a press report, is estimated at $20,000, and is to be done at once under the instructions of the city engineer.

FERNDALE, CAL.—Reports state that bids are asked until July 7 for constructing bridge, with concrete walls, across Francis Creek on Ocean Ave. W. H. Roberts, Town Clk.

MELBOURNE, QUE.—Melbourne and Richmond have voted in favor of a bylaw for the construction of a bridge to replace the St. Francis structure recently destroyed.

BUILDINGS.

PORTSMOUTH, N. H.—The contract for the new alumni hall at Phillips Exeter Academy has been awarded to Mead, Mason & Co., of Manchester, at a cost of $45,000.

WEST SPRINGFIELD, MASS.—Bids are asked until July 11 for the erection of a 4-room brick school building on Riverdale St. C. E. Brockway, Secy. Bldg. Com.

HARTFORD, CONN.—Plans are being prepared for a 4-story apartment on the property recently purchased by Reading Bros., of Springfield, on Wethersfield Ave. It will be of stone and brick construction, 72 × 96 ft., and will cost $60,000.

BROOKLYN, N. Y.—The New York & New Jersey Telephone Co. will build another building in Clinton Ave., north of Atlantic Ave., to be six stories high, 100 × 110 ft., of brick and stone construction. Wm. B. Claflin is the Arch.

NEW YORK, N. Y.—Plans have been filed by J. L. Miller, 126 Riverside Drive, for a 6-story brick office building, 71 × 156 × 186 ft., at Broadway and 65th St., to cost $120,000. J. Munckwitz, Arch., 247 West 125th St.; by J. L. Miller, for a 6-story office building, 75 × 141 × 102 ft., in Broadway, to cost $95,000. J. Munckwitz, Arch.; by C. F. Mattlage, 335 Greenwich St., for a 12-story brick office building, 26 × 80 ft., at 276 Greenwich St., to cost $120,000. H. Kreitler, Arch., 62 Broad St.; by Weinstein & Simon, 1294 Lexington Ave., for a 6-story brick tenement, 42 × 90 ft., at 342-44 15th St., to cost $42,000. G. F. Pelham, Arch., 503 Fifth Ave.; by Swift & Co., Columbus Ave. and 80th St., for a 5-story brick storage building, 111 × 106 ft., at First Ave. and 44th St., to cost $60,000. Copeland & Dole, Archs., 51 Exchange Place; by the 55th St. Co., 100 Broadway, for an 18-story brick hotel, 125 × 100 ft., at Fifth Ave. and 55th St., to cost $2,250,000. Hass & Weekes, Archs., 111 Sixth Ave.; by the City of New York, for a 3-story brick fire-engine house, 25 × 81 ft., in 150th St., to cost about $35,000. Alexander Stevens, Arch., 167 East 76th St.; by the City of New York, for a 4-story brick school, 142 × 60 ft., in 82d St., to cost $106,000. C. B. J. Snyder, Arch.; by the Columbia Club, for a 3½-story brick club house, 50 × 110 ft., at Fifth Ave. and 127th St., to cost $80,000. O. Lowinson, Arch., 39 Cortlandt St.; by M. Gold, 37 West 118th St., for a 6-story brick tenement, 50 × 86 ft., at 153-55 East 118th St., to cost $45,000. Horenburger & Straub, Archs., 122 Bowery.

NEW YORK, N. Y.—Bids are wanted by the department of education, Park Ave. and 59th St., until July 3 for installing a heating apparatus in school 85, Girl's High School and Erasmus Hall High School annex, Borough of Brooklyn; until July 9 for alterations and repairs to heating apparatus in various public schools; until July 11 for alterations and repairs to school buildings in the Borough of the Bronx, and until July 14 for similar work to other schools in that borough. C. B. J. Snyder, Supt. School Bldgs.

WAVERLY, N. Y.—Bids are asked until July 8 for the erection of an office building for the National Protective Legion at Waverly. P. L. Lang, Secy.; Pierce & Bickford, Archs., Elmira.

ELIZABETH, N. J.—The following bids were opened by the board of chosen freeholders on June 23 for the construction of the new court house, advertised in Engineering News: American Bridge Co., New York, structural steel work $32,270, ornamental iron work $19,922; John H. Parker Co., New York, for all work except structural steel work and furniture $534,750; Connors Bros., Lowell, Mass., $555,000; Alexander Brown, Jr., New York, $540,000; J. C. Vreeland & Co., New York, $516,819, structural steel work $28,590; Norcross Bros., New York, $617,900; Probst Construction Co., New York, $539,327; Moffatt, Hewitt & Norris, New York, $544,980; William T. Kirk Co., Plainfield, $585,990, structural steel work $32,100; Hinkle Iron Co., New York, iron and steel work $32,400.

FORT HANCOCK, N. J.—Bids are asked until July 19 for construction of an addition to the post hospital, including plumbing, heating, etc. D. F. Craig, Q. M.

NEWARK, N. J.—The contract for the new city hall has been awarded to E. M. Waldron, Newark, at $1,088,177. The building is to be of Webb granite and will be completed within 30 months.

NEW BRUNSWICK, N. J.—Donations amounting to $50,000 have been announced by the faculty of Rutgers College. The money will be used for the erection of a new library building.

OCEAN CITY, N. J.—A company composed of J. Hamton Moore, Philadelphia; Harry Headley, E. A. Corson and others, has purchased property between 10th and 11th Sts., and will erect a $75,000 hotel thereon.

PHILADELPHIA, PA.—Heacock & Hokanson, Archs., 931 Chestnut St., informs us that the contract for the concrete foundations for the storage sheds, office building and stable for Henry A. Hitners Sons, has been let to Chas. Craig, 2632 Columbia Ave. The buildings will be one and two stories, covering an area of 500 × 146 ft., and will be built of brick, wood and steel.——A permit has been issued to John R. Wiggins & Co. for the erection of a 4-story building at Juniper and Market Sts., for the Estate of Joseph Harrison, Jr., to be 80 × 42 ft., and to cost $60,000.——Harry B. Shoomaker & Co., builders, have taken out a permit for a 4-story building for the Philadelphia Quartette Club in Germantown Ave., to measure 60 × 50 ft., with a back building 55 × 114 ft. The cost will be $45,000.

PITTSBURG, PA.—Plans have been decided on for the new Jewish hospital to be erected on Miller St. The building will be 200 × 127 ft., and will cost about $50,000. The building committee consists of Drs. Blumburg, A. Goldstone, Wm. Weil and I. Ullman.——A permit has been granted to the Charity Hospital for a brick 5-story building at Frankstown Ave. and the Boulevard, 23d Ward, to cost $150,000.

WASHINGTON, D. C.—The building committee, composed of B. H. Steinmatz, 1237 Pennsylvania Ave.; W. E. Chandler, 1421 U St., and J. O. Bell, "The Hamilton," is now receiving competitive plans for a M. E. Church building at 16th and Madison Sts., N. W., to cost between $75,000 and $100,000.

ASHEVILLE, N. C.—The Asheville Masonic Building Co., capitalized at $75,000, has been incorporated by W. F. Randolph and others, and will erect a Masonic Temple in this city.

GOLDSBORO, N. C.—The Treasury Department, Washington, D. C., is advertising for a site for a public building in this place, to measure 130 × 150 ft.

COLUMBIA, S. C.—The school trustees will ask the council to provide for new school buildings costing about $75,000.

COLUMBUS, GA.—The plans for the new Y. M. C. A. building have been accepted. Bids for the new building will now be received.

JACKSONVILLE, FLA.—The contract for the building of the new St. John's Episcopal Church, to be erected on St. John's Place, has been awarded to McCarrel & Sloan, of Charleston. The edifice will be 110 × 160 ft., and will cost about $100,000.

SELMA, ALA.—The Treasury Department is calling for bids, to be received by July 21, for a site, 150 × 165 ft., for the federal building to be erected in Selma.

CLINTON, LA.—Bids are asked until July 15 for the erection of a public school building. C. W. Ball, Mayor.

CYNTHIANA, KY.—Bids are asked until July 25 for the erection of the Harrison Deposit Bank building. Des Jardins & Hayward, Archs., Cincinnati, O.

CINCINNATI, O.—Bids are asked until July 11 for the construction of three cottage buildings and making improvements to the Athens State Hospital. E. H. Rorick, M. D., Secy. Bd. Trustees.

CLEVELAND, O.—Bids are asked until July 23 for the erection of a school building on Sibley St. Starr Cadwallader, School Dir.

COLUMBUS, O.—Chas. L. Henry, J. A. Vanoosl and C. E. Richards are interested in the plan to erect an office building in this city, costing about $500,000.

LANCASTER, O.—Richards, McCarty & Bulford, Archs., Columbus, are preparing plans for the Boys' Industrial building at Lancaster, to be two stories high, 45 × 120 ft., and to cost $40,000. The same architects have plans for a town hall at Alexandria, to be two stories, 40 × 80 ft.

MANSFIELD, O.—Bids are asked until July 17 for the construction of 100 steel cells in the east cell wing of the Ohio State Reformatory. Weary & Dole, Archs.

VIOLET, O.—Bids are asked until July 19 for the erection of a school house. John A. Kraner, Town Clerk.

YOUNGSTOWN, O.—Owsley & Boucherle, Archs., are preparing plans for a 2-story addition to the Sharon, Pa., offices of the Sharon Steel Co., to cost $30,000. The same architects have plans under way for a kindergarten building for the Free Kindergarten Association at Front St. and Market St. It will be two stories, of stone and brick. Contracts will be let by July 15.

ANN ARBOR, MICH.—The contract for the new engineering building has been let to Hoertz & Son, Grand Rapids, at $140,000. Work will be started at once.

BAY CITY, MICH.—The contract for the new Pere Marquette R. R. depot in this city has been let to Matthew Lamont and J. H. Tennant. The building will be two stories high, 36 × 161 ft.

DETROIT, MICH.—H. T. Liebert, Arch., Hancock, has prepared plans for a hospital building for the Sisters of St. Joseph, to cost about $50,000.

CHICAGO, ILL.—Alfred F. Pashley, Arch., 315 Dearborn St., is preparing plans for the erection of a $50,000 warehouse and manufacturing building for J. Harley Bradley, to be located upon the Bradley property, on the West Side. The building will be five stories high, 40 × 150 ft., of heavy mill construction, equipped with a 25-ft. freight elevator.——A. R. Clark & Co. have taken out permits for the erection of a 4-story apartment house on the South Side, to cost $120,000; a building, 100 × 87 ft., at 352-58 East 16th St., to cost $70,000, and another at 4650-58 Woodlawn Ave., 101 × 42 ft., to cost $50,000.——Geo. H. Laflin will erect a 7-story building, 80 × 171 ft., at 338-44 Wabash Ave. for the Henry Basch Co., after plans by J. F. & J. P. Doerr, Archs., costing about $125,000.

JACKSONVILLE, ILL.—Bids are asked until July 14 for the erection of a school, library and studio building for the Institution for the Education of the Deaf and Dumb. Joseph C. Gordon, Supt.

DES MOINES, IA.—The McKinley school building will follow the plans of Hallett & Rawson, Archs., which call for a 3-story stone building, costing about $35,000. It will be heated by steam and will be equipped with the fan ventilation system.

IOWA CITY, IA.—Bids are asked until July 21 for the erection of two buildings for the State University. Wm. J. Haddock, Secy. Bd. Regents.

MINNEAPOLIS, MINN.—A permit has been issued to Della Ames for the new flat building to be erected at 11th St. and Second Ave. It will be four stories in height and will cost $60,000. W. C. Whitney is the Architect.

RED WING, MINN.—The Hauges Norwegian Lutheran Synod has decided that a new building shall be erected for the seminary at Red Wing, to cost about $45,000. It will be of brick and stone, two stories high, and 139 × 62 ft. Omeyer & Thori, Archs., St. Paul, prepared the plans.

MITCHELL, S. DAK.—Bids are asked until July 7 for the construction of the city library building. Wm. M. Herbert, City Audr.

GRAND FORK, N. DAK.—Bids are asked until July 12 for the erection of a public library building, of brick and stone. F. W. Wilder, Pres. Library Bd.

KANSAS CITY, MO.—The Central M. E. Church, Rev. E. D. Monzon, Pastor, has decided to erect a new $150,000 edifice between Ninth and 12th Sts.

KANSAS CITY, MO.—The Manufacturers' Association has decided to erect a new club-house, to cost about $50,000. F. D. Crabbs, R. M. Hilliker and D. M. Bone are members of the committee appointed to investigate the matter.

ST. LOUIS, MO.—The contract for the erection of the Palace of Fine Arts building at the World's Fair has been awarded to the Goldie Construction Co., at $915,128. The

building will be a permanent structure, and will be used as the Louisiana Purchase Museum after the close of the fair.

DENVER, COLO.—The Denver-Chicago Construction Co. will shortly close a deal for two sites on Capitol Hill and begin the erection of two apartment houses, each to cost $100,000. Plans for the buildings are now in the course of preparation, Chicago architects having the work in hand, and work on the buildings will be started in August. E. A. Cummings, a real estate dealer of Chicago, is Pres.

EUREKA, CAL.—Plans and specifications for the Carnegie Library are completed, and bids will be called for the construction in a few days.

LOS ANGELES, CAL.—Bids are asked until July 28 for furnishing a complete system of cells for the county jail. C. W. Bell, County Clk.

MARTINEZ, CAL.—The supervisors are considering the advisability of calling a special bond election in order to raise $220,000 with which to complete the county court house and jail.

OXNARD, CAL.—The Walnut Growers' Association has elected its officers, with L. J. Rose Pres. The association expects to erect a new storehouse along the railroad track, costing $200,000.

SAN FRANCISCO, CAL.—Meyer & O'Brien, Archs., have drawn plans for the bank building for the Bank of Bakersfield, to be a 2-story structure, costing about $55,000.

SAN JOSE, CAL.—The county supervisors have ordered the preparation of plans for a new county building, to cost about $50,000.

VALLEJO, CAL.—Bids are asked until Aug. 9 for the construction of a 1-story brick and steel building, 300 × 100 ft., at the Mare Island Navy Yard. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.

VANCOUVER, B. C.—The Sisters of Providence will erect a 3-story brick and stone hospital building here, at an estimated cost of $75,000.

TORONTO, ONT.—Bids are asked until July 7 for the erection of the chemistry, mining and geology building on College St. in connection with the School of Practical Science. F. R. Latchford, Comr. Dept. Pub. Wks.—Bids are asked until July 7 for the erection of six houses on Duchess St. R. J. Edwards, Arch., 18 Toronto St.

WATER SUPPLY AND IRRIGATION.

FT. REVERE, MASS.—Capt. Alfred M. Palmer, Q. M., U. S. A., Boston, writes us that the following bids were received June 19 for a water tower, standpipe, etc: C. N. Taylor, Wellesley, Mass., rock, $15,900; rock, $15,700; brick, $14,400; granite, $16,500. A. Baffrey, 1123 Broadway, New York, Humebique system, $11,980 (awarded contract). Walsh's Holyoke S. B. Works, Holyoke, Mass., steel standpipe, $2,960.

GARDNER, MASS.—The town will probably take over the works of the Gardner Water Co. at once. C. O. Bent is Pres. Water Comrs.

GARDNER, MASS.—The Supreme Court will probably soon be asked to appoint a commission to fix a value to the works of the Gardner Water Co., with a view to the city's buying the same. J. A. Stiles is Town Solicitor; C. H. Green is Pres. Water Co.

WALLINGFORD, CONN.—This place has voted to improve the works. The water commissioners have been authorized to secure the services of experts. Address M. J. O'Callahan and W. C. Northrup.

PROVIDENCE, R. I.—Bids are asked until July 15 for furnishing the materials and for constructing a slow sand filtration plant, as described in our advertising columns. Robt. E. Smith, Comr. Pub. Wks.

BROCKPORT, N. Y.—The question of municipal works is reported as being considered.

CASTILE, N. Y.—J. S. Chapman, President of Village, writes us that the trustees are taking steps to get a valuation of the works with a view to buying the same, or to build new works. It is also proposed to build an electric plant and a sewerage system.

COHOES, N. Y.—The water board is considering the question of installing a 5,500,000-gallon pump, to cost $15,000.

NASSAU, N. Y.—This place has voted to issue $13,500 in bonds for works.

PALATINE BRIDGE, N. Y.—The Palatine Bridge Water Co. has been incorporated, with a capital of $10,000, by Devid Gring, of Newport, Pa.; M. E. Johnson, of Canajoharie, N. Y., and E. H. Ireland, of Palatine Bridge.

WEST POINT, N. Y.—The War Department, Washington, D. C., will begin work this summer on the proposed improvements to the water-works, to cost about $100,000, and for additions to the heating and lighting systems, to cost about $100,000. Col. Mills, the superintendent of the academy, has already selected an advisory board of professors to confer with the architects and determine the most essential needs of the institution. The military academy act makes $2,000,000 available in the next fiscal year, and guarantees other appropriations within the $5,500,000 as soon as the money is needed.

ATLANTIC CITY, N. J.—The board of trade has recommended that the city council build storage reservoirs and make changes to the fresh water system for fire protection, and that the matter of installing a salt water system be postponed for the present. Herman M. Sypherd is Secy. Bd. of Trade.

HAMMONTON, N. J.—Bids were asked by the water commissioners until July 2 for drilling four artesian wells for the proposed water-works.

NEWTON, N. J.—W. M. Woodward, Water Comr., writes us that the town is considering the question of a storage reservoir.

ASPINWALL, PA.—Bids are asked until July 12 for a new wooden water tank and a duplex high-pressure pump of 25,000 gallons an hour. Address S. M. McMonan, Safe Deposit & Trust Co., 4th Ave., Pittsburg; W. R. Smith, Clk.

AUSTIN, PA.—Bids are asked until July 10 for furnishing the materials and for constructing works, as stated in our advertising columns. J. F. Witmer, Engr., Buffalo, N. Y.; F. J. Wandall, Secy. Borough Council.

GAYSPORT, PA.—It is proposed to build a 350,000-gallon reservoir. Geo. R. Treese is Supt.

McKEES ROCKS, PA.—H. A. Rupp, Pres. Council, writes us that nothing definite has been decided regarding the proposed new works. Pop., 10,000.

PHILADELPHIA, PA.—Daniel J. McNichol submitted the only bid June 26, at $37,800, for an administration building and pumping station at Upper Roxboro filtration plant, and at $13,390 for system of baffles for the lower plant.

PITTSBURG, PA.—The council has been asked to take steps to secure a better water supply. Larger pipes should be laid in the downtown section, at a cost of about $400,000. It is recommended that more water meters be installed. J. G. McCandless, Dir. Dept. Pub. Wks., has estimated that it will cost about $3,500,000 to build a filtration plant.—The Pennsylvania Water Co., it is stated, will commence at once the construction of a new 70,000,000-gallon reservoir at Pitcairn to supply the towns in the Turtle Creek Valley with water.

STONEBORO, PA.—Bids are asked until July 21 for furnishing the materials and for constructing works, as stated in our advertising columns. Frank McSweeney, Boro. Treas.; G. B. Zahniser, Engr., Clendenin Block, New Castle, Pa.

WASHINGTON, D. C.—The senate has appropriated $600,000 for the construction of a slow sand filtration plant, work to proceed at once.

RICHMOND, VA.—S. L. Pulliam has asked for a franchise for works for Fairmount, a suburb of this city.

ATHENS, GA.—The Athens Electric Ry. Co. has agreed to purchase a pump of 1,400,000 gallons capacity for the water-works and to make other improvements. J. Y. Carithers is Pres.

GRIFFIN, GA.—E. H. Davis, Supt. W.-W. and Cy. Engr., writes us that this city has voted to issue $80,000 in bonds, of which $30,000 is for improving the works and electric plant and about $50,000 for sewers.

McRAE, GA.—This place has voted to issue bonds for works and an electric plant.

ASHLAND, ALA.—Reports state that this place proposes to build works. Address J. W. Jackson.

BIRMINGHAM, ALA.—The Birmingham & Suburban Water Co. has been incorporated, with a capital of $2,000,000, by Robt. R. Zell, of Birmingham; L. N. Pitcher, of Chicago, Ill., and Eugene F. Enslen, of Birmingham, to build works. Local papers state that this company has purchased the works in Pratt City.

MOBILE, ALA.—The question of buying the works of the Bienville Water Supply Co. is being considered.

WASHINGTON, ALA.—E. T. Bradley, of Crowley, La., is reported as preparing plans for an irrigation canal, to be 75 miles long and 250 ft. wide and to cost about $1,500,000. The canal will reclaim about 500,000 acres of land.

GUEYDAN, LA.—W. L. Doss and Tom Elstner have asked for a franchise for works and an ice plant, to cost about $10,000.

ST. MARTINSVILLE, LA.—This place proposes to build works and an electric plant, according to reports. H. P. Fournet is Mayor.

COVINGTON, TENN.—The question of buying the works of the Covington Water Co. will be considered July 9.

MEMPHIS, TENN.—The Pittsburg Water & Guaranty Co., of Pittsburg, Pa., has submitted a proposition to take over the works of the Artesian Water Co. and make improvements. Local papers state that the city cannot build works, as was lately reported. E. B. Le Master is Chn. Com.

MORGANTOWN, KY.—This place has voted to issue $9,000 in bonds for works.

VERSAILLES, KY.—Edward Gumster, of this city, representing Pennsylvania capitalists, has asked for a franchise for works.

HAMILTON, O.—Dabney H. Maury, Peoria, Ill., has submitted a report on the proposed improvements to the works, and has suggested a new source of water supply, new boilers, new pumps, etc., at a cost of about $110,000. J. C. Strategier is Dir. Pub. Wks.

LIMA, O.—John K. Brice, Engr. Water-Works, writes us that plans and specifications for a storage reservoir will be completed in the near future. John Thompson, Jas. Langcon and W. H. Stephens are the trustees.

PAULDING, O.—Bids are asked until July 16 for furnishing the materials and for constructing works, to include a duplex air compressor, two 750,000-gallon pumping engines, 66 ins. × 16 ft., a 250-HP. open heater, steel tower and tank, a standpipe, 346 tons c.-i. pipe, 7 tons of specials, 23 gate valves, 38 hydrants, etc. J. P. Force, Engr., 41 Dispatch-Butler Block, Columbus, O.; S. J. Tate, Chn. Trustees.

FORT BRANCH, IND.—The town board is considering the question of building works and an electric plant.

INDIANAPOLIS, IND.—The Indianapolis Water Co. has completed plans for extending the water mains to Irvington and Tuxedo.

MILFORD, IND.—The town board has granted a franchise for works, to cost $6,000, to the Milford Water Co.

MARSHALL, MICH.—W. J. Dowsett has been awarded the contract for two new water mains.

NORWAY, MICH.—It is proposed to extend the water mains, at a cost of about $2,000. F. A. Janson is Mayor.

CHICAGO, ILL.—Bids are asked until July 8 for water mains in several streets. J. A. May, Secy. Bd. Impts.

HENRY, ILL.—The town has voted in favor of issuing bonds for $12,000 for water-works.

WHEATON, ILL.—The board of trustees of Wheaton College has voted to erect a central heating, lighting and water supply plant, and also a new industrial building. The cost will be about $40,000.

BARABOO, WIS.—It is stated that the committee authorized to prepare plans and specifications for new works has engaged a civil engineer of Chicago to prepare plans for works. The city has already expended $1,000 for drilling a well in a location where water can be secured.

BARRON, WIS.—The court is reported to have decided in favor of the city extending the water mains.

ELLSWORTH, WIS.—Bids are asked until July 8 for constructing works, to cost $15,000. O. Claussen, Engr., 16 German-American Bank Bldg., St. Paul, Minn.; J. E. Foley, Pres. Council.

GIBBON, MINN.—Bids are asked until July 10 for works, to cost $4,500. O. Claussen, Engr., St. Paul.

GREAT FALLS, MONT.—The opening of bids for the purchase of $45,000 of bonds for new works has been postponed by the council. Address Mayor Collins and City Clerk Smith.

HAVRE, MONT.—It is stated that Chas. H. Causey, of Fort Benton, Mont., has been granted a franchise for works, to cost about $30,000.

CARTHAGE, MO.—The Jas. T. Lynn Water Co., of Detroit, Mich., is reported to have secured control of the property of the Carthage Water Co. The new owners propose to make improvements and to put in a filter plant. Geo. G. Bayne, of the Joplin Water Co., Joplin, Mo., is interested.

BARTLETT, TEX.—Bids are asked by E. F. Kelly, Mayor, for constructing works. Pop., 1,200.

JOPLIN, MO.—Local papers state that Chas. J. Dunnerman, representing eastern parties, has submitted a proposition to purchase the works of the Joplin Water Co., whose 20-year franchise expires Jan. 4, make improvements costing $200,000, and to lease the property to the city for a term of years. Address Mayor Trigg.

HOUSTON, TEX.—The committee has submitted a report in favor of the city's buying the works, and it is recommended that steps be taken at once looking to the matter of securing contract. Councilman Watkins is Chn. Com.—The Clark Rice & Irrigation Co. has been incorporated, with a capital of $250,000, by T. W. House, John W. Harrison and Ross L. Clark, to build an irrigation system in Harris and Victoria.

JACKSBORO, TEX.—We are informed that John B. Hawley, of Fort Worth, Tex., has made a report on a water supply and cost of constructing works estimated at $17,000. The water supply will be secured from artesian wells. Pop., 1,500.

LEWISVILLE, TEX.—The Lewisville Water Co. has been incorporated, with a capital of $2,500, by J. N. Kealy and W. W. Sherrill.

MT. PLEASANT, TEX.—This place has sold $20,000 in bonds and will soon begin the construction of its works.

VICTORIA, TEX.—C. B. Davis, 10 Wall St., New York, is reported to have recommended the construction of new works, to consist of two settling basins, to cost $12,500, a new 12-in. main, to cost $7,000, etc.

WALLISVILLE, TEX.—Reports state that Garland & Williams intend to begin work at once on their proposed irrigation canal.

BLACKWELL, OKLA. TER.—This place has voted to issue $40,000 in bonds for works.

GEARY, OKLA. TER.—This place will soon vote on the question of issuing $25,000 in bonds for works.

DELTA, COLO.—The Garnet Ditch & Reservoir Co. has been incorporated, with a capital of $30,000, by E. R. Standish and Wm. Hastings.

DENVER, COLO.—The Colo.-Routt Fuel, Land & Water Co. has been incorporated with a capital of $1,000,000 by H. V. Kepner and B. L. Smith.

WHATCOM, WASH.—E. E. Hardin, Mayor, writes us that this city has voted to issue $60,000 in bonds for extending the works. Bids are asked until Aug. 3 for the purchase of the bonds, and bids for 8,000 ft. of 16-in. c.-i. water pipe and laying same will be wanted in August.

LA GRANDE, ORE.—R. E. Strahorn, of Spokane, Wash., has submitted a proposition for a 40-year franchise for works, light plant and a sewerage system.

OCEANSIDE, CAL.—The city trustees will soon call an election to vote on the question of issuing $12,000 in bonds for extending the works.

RIO VISTA, CAL.—T. J. Kalber, Town Clk., writes us that the Crane Co., of San Francisco, Cal., has been awarded the contract, at $8,430, for furnishing pipe, valves, hydrants and other water department supplies.

SANTA MONICA, CAL.—Bids are asked by the city clerk for furnishing meters for sea water used in sprinkling streets.

BISBEE, ARIZ.—The Bisbee Water Co., it is stated, is making arrangements to build works.

KANANA, UTAH.—The Kanana Field Reservoir & Irrigation Co. has been incorporated, with a capital of $20,000, by J. S. Berry and Chas. Parker.

WHITBY, ONT.—This place is reported to have decided to build works, the water supply to be secured from Lake Ontario.

ST. JOHN, N. B.—The council committee will soon submit a report on the proposed improvements to the works.

SEWERAGE

WESTFIELD, MASS.—Bids will probably be called for about July 20 for constructing a system of surface drainage, for which $105,000 has been appropriated.

WORCESTER, MASS.—Local press reports quote H. P. Eddy, Supt. of Sewers, as stating that 50 acres of new filter beds would be needed for Quinsigamond sewage purification works before the plant could be called complete.

BRISTOL, CONN.—The borough board has ordered sewers constructed in Grove, Stewart and Summer St. extensions.

STAFFORD SPRINGS, CONN.—W. H. Heald, Clk., writes us that the sewer work contemplated consists of only about 1,500 ft. small pipe sewers. Work will be handled by local contractors.

THOMPSONVILLE, CONN.—Reports state that 3,100 ft. of 8-in. pipe sewer is to be constructed in Elm and North Main Sts. Four manholes are to be put down and the deepest excavation is to be 13 ft.

BUFFALO, N. Y.—According to reports, the bureau of engineering, Buffalo, has nearly completed plans and specifications for the Hamburgh Canal sewage pumping station.

BUFFALO, N. Y.—Bids are asked until July 10 for constructing 24-in. brick and a 15-in. tile sewer in Hayes Place, a 10-in. tile sewer in Zittle St. and reconstructing present sewer north of Parkview Ave. Francis G. Ward, Pub. Wks. Comr.

CANTON, N. Y.—Press reports state that bids are to be opened July 10 for over ten miles of 6 to 18-in. sewer pipe.

CASTILE, N. Y.—W. J. White, C. E., Buffalo, N. Y., writes us that plans for the proposed sewerage system are about completed and will be sent to the state board of health soon, the village trustees having already approved of the plans.

COHOES, N. Y.—Bids are asked until July 9 for constructing 3,057 ft. of 20-in. pipe sewer and two manholes, etc., in Columbia St. Wm. J. Elliot, Clk.

FLUSHING (L. I.), N. Y.—Surveys are being made for the grades of the streets of a 700-acre tract within the territory of Ingleside and Bowne Park, preparatory to the construction of a system of sewers in that district.

HUDSON, N. Y.—H. K. Bishop, C. E., Supt. Pub. Wks., informs us that bids are asked until July 11 for 1,125 ft. 4-ft. brick sewer and appurtenances.

ROME, N. Y.—The contract for constructing the storm-water sewer in North Madison St. has been let to George & Eddy, for $6,081.

SARATOGA SPRINGS, N. Y.—The sewer commission has secured 23 acres of land for a sewage disposal plant and has awarded contracts to the Atlantic Co., Boston, for apparatus, etc., for the beds, amounting to about $7,800.

WARRENSBURG, N. Y.—Local press reports state that bids are asked until July 5 for constructing sewer. Bond of $2,000 required. Chas F. Burhaus, Sewer Comr.

WHITE PLAINS, N. Y.—Bids are asked until July 22 for building a sewage pumping station, as is stated in our advertising columns. B. H. Darling, Village Engr.; Peter Paulding, Village Clk.

MILLVILLE, N. J.—We are informed that no steps have been taken so far by this city regarding sewers or sewerage.

KINGSTON, PA.—The question of combining with Edwardsville in regard to sewering Main St., in the Fourth Ward, is under consideration. Thomas Wright is Boro. Engr.

LANCASTER, PA.—An ordinance has been before the council calling for a bond issue of $625,000 for extending the sewer system, covering all open sewers and increasing and improving the water supply.

MONESSEN, PA.—This place has voted in favor of an $85,000 bond issue for sewer and street improvement purposes.

PHILADELPHIA, PA.—The survey committee has apportioned the $800,000 loan for sewer construction as follows: York St. sewer, $22,000; Gorgas Run sewer, $10,000; Wingohocking Creek, $21,000; McKean St. relief, $21,000; main intercepting sewer, Shawmont Ave., $100,000; Princeton St., $50,000; Frankford, intercepting system, $50,000; extension of Thomas Run, $50,000; Shunk St., $90,000; Cohocksink relief, $120,000; Dobson's Run system, $40,000; West Branch Thomas Run, $20,000; Disston St., $10,000; Jackson St., $15,000; Wingohocking Creek, $20,000; Indian Run sewer, Maldren Ave., $50,000; Ogontz Ave., $75,000; Cresheim Creek, $25,000.

NEWPORT NEWS, VA.—The sewer committee has authorized the extension of the sewer system extending from 34th St. to 32d St. from Warwick to Jefferson.

COLUMBUS, GA.—Robt. L. Johnson, Supt. Pub. Wks., writes us that the bond election which was to have been held June 19 to vote upon an issue of $150,000 of sewer bonds has been indefinitely postponed, owing to the overlooking or neglecting of some legal requirement, and the matter probably dropped for the present.

LAGRANGE, GA.—Reports state that this city has voted to issue $40,000 in bonds for a sewerage system.

MILLEDGEVILLE, GA.—This city is considering the question of sanitary sewerage. Julius A. Horne is Mayor.

BIRMINGHAM, ALA.—Local press reports state that four bids, all from local contractors, were received by the Jefferson county sanitary commission for the construction of 14¾ miles of sanitary sewers. The commission decided that the bids were too high and referred them to the construction committee to see if they cannot have them reduced. If the committee is not successful in this, the report states, that other bids will be called for. This is the second time that bids have been taken for doing this work.

STEUBENVILLE, O.—Local reports state that the board of improvement has recommended that all bids for the construction of sewers in Washington and North Sts. be rejected on the ground of being too high.

SOUTH BEND, IND.—Reports state that bids are asked until July 8 for constructing about 600 ft. 15-in., 260 ft. 12-in., 950 ft. 10-in., 490 ft. 8-in. and 100 ft. 8-in. cast-iron pipe sewers, manholes, etc., in La Salle Ave. A. J. Hammond is Cy. Engr.

DETROIT, MICH.—John Affeld was the lowest bidder for the sewers in Dubois and 31st Sts., his bid for the former being $17,442 and for the latter $2,037.

GRAND RAPIDS, MICH.—Reports state that the East Grand Rapids village council is to investigate the matter of a trunk sewer connecting the village with the city system.

GRAND RAPIDS, MICH.—L. W. Anderson, Cy. Engr., has been making surveys looking to the construction of the proposed ditch sewer on the west side. It is estimated that the improvement will cost about $100,000.

NAZARETH, MICH.—Reports state that plans have been made for a new sewer for this place.

ROCKFORD, ILL.—Ed. Main, C. E., writes us that nothing definite has been done regarding the proposed storm sewer from Rockton Ave. to Kent Creek.

BURLINGTON, IA.—Reports state that bids are asked until July 16 for constructing sewers in Spray and Foster Sts. and Central Ave.

DES MOINES, IA.—Local press reports state that bids are asked until July 22 for constructing about 27,330 ft. 12-in. vitrified clay pipe sewers, 4,320 ft. 42-in. two-ring brick sewer, 40 ft. 48-in. two-ring brick sewer, 790 ft. 36-in. two-ring brick sewer, 2,360 ft. 18-in. clay pipe sewer, 1,820 ft. 15-in. clay pipe sewer. J. E. Stout, Bd. Pub. Wks.

HAMPTON, IA.—Reports state that bids are asked until July 7 for furnishing and laying about 23,200 ft. 8, 12 and 15-in. sewer pipe, 46 manholes, flush tanks, etc. M. Tschirigi, Cons. Engr., Dubuque, Ia.; B. D. Hunt, Cy. Clk.

INDEPENDENCE, IA.—Press reports state that a $3,000 sewer outlet is to be built here.

ROCK RAPIDS, IA.—This town has let a contract to Loweth & Co., Minneapolis, Minn., for the preparation of plans and specifications for sewerage.

ROCKWELL CITY, IA.—The contract for putting in the system of sewers for this town has been let to Geo. M. King, Des Moines, Ia., for $12,659.

BARNESVILLE, MINN.—The contract for 1,900 ft. of tile drain has been let to C. H. Porritt for $3,590.

WILMOT, MINN.—Bids are asked, according to reports, until July 8 for constructing about 2,500 ft. of sewer. M. B. Hayes, Engr., Mankato, Minn.; James Montgomery, Mayor.

BUTTE, MONT.—H. M. Sanfield has been awarded a contract for a sanitary sewer for $4,776.

HAVRE, MONT.—An election is to be held July 9 to vote on the issue of $10,000 of sewerage bonds.

KANSAS CITY, MO.—The contract for constructing a sewer in district No. 232 has been let to Michael Walsh for $28,197, and the contract for a sewer in district No. 229 has been let to J. & W. M. Boyd Construction Co. for $21,497.

EL PASO, TEX.—Geo. S. Pierson, Cons. Engr., Kalamazoo, Mich., has made a report to the authorities of this city regarding a new method of sewage disposal. He estimates the cost of the required plant at $30,000.

PUEBLO, COLO.—Local press reports state that a temporary injunction has been granted restraining the letting of the contract for the proposed sewer system, bids for which have already been received.

LAS VEGAS, N. MEX.—Reports state that this city has sent out estimates for a $60,000 sewer system.

SEATTLE, WASH.—An ordinance, according to local reports, has been before the council recommending the expenditure of $20,000 for constructing four septic tanks for the city sewage.

FRESNO, CAL.—I. Tellman, Cy. Engr., writes us that plans for storm sewers for this city, to cost about $35,000, have been prepared. Main sewers will be constructed of brick and laterals of sewer pipe. Sewers are to be constructed under the Vrooman act and cost assessed on the district.

HANFORD, CAL.—Reports state that surveys are being made for the proposed extension of the sewer and water lines.

LOS ANGELES, CAL.—Resolutions have been adopted for the construction of an outfall sewer from Los Angeles to the Pacific, and for the extension of the system in the city; estimated cost $1,000,000. A resolution was also adopted for a storm sewer system at an estimated cost of $400,000.

SAN FRANCISCO, CAL.—The lowest bid for extending the Army St. sewer was received from the Union Paving & Contracting Co., $7,875. The lowest bid for extending Poterac Ave. sewer, $4,000, was received from the same company. For reconstructing Sixth St. sewer, the City Improvement Co. was the lowest bidder, at $10,955.

LEWISTON, IDAHO.—We are informed that efforts are being made to organize a sewer district but some delay has been experienced in the matter of securing signatures to the petition. Ernest McCullough, Cy. Engr.

GARBAGE DISPOSAL—STREET CLEANING

NEW YORK, N. Y.—Bids are asked until July 11 for furnishing 19 street sprinkling trucks for Brooklyn. J. M. G. Woodbury, Comr. St. Cleaning, 13 Park Row.

SCHENECTADY, N. Y.—A committee, consisting of Mayor Van Voost and Aldermen Coffin and Allen, have been appointed to consider methods for the better disposal of the garbage.

NEWARK, N. J.—Bids are asked until July 15 for collecting and disposing of the garbage and refuse for a term of five years, as stated in our advertising columns. J. C. Mundy, Gen. Supt. of Works.

HAZLETON, PA.—The council is reported as considering the question of building a crematory.

HOMESTEAD, PA.—The council is said to have made arrangements with a private contractor to care for the garbage until a plant is built, the contract for which is probably let.

ST. JOSEPH, MO.—A committee, consisting of President Crandall, Councilmen Andriano and Thayer, have been appointed to consider the matter of building a garbage disposal plant, to cost about $40,000.

STREETS AND ROADS.

CHESTER, MASS.—It is stated that a special town meeting is to be held soon to take action regarding a section of state highway in this town.

FALL RIVER, MASS.—This city has purchased 300,000 paving blocks and has let the contract for laying the same.

SALEM, MASS.—The council has been considering the extension of Leavitt St. at an estimated cost of $10,000.

GLASTONBURY, CONN.—A local report states that $5,200 is to be spent for macadamizing Water St. and another road in South Gastonbury; surveys for the work having already been made.

NEW BRIGHTON, N. Y.—Bids will be received by the Richmond Borough President, First National Bank Bldg., St. George, New Brighton, until July 11 for about 24,250 sq. yds. macadam paving, 17,000 cu. yds. excavation and various other street work. George Cromwell, Boro. Pres.

SCHENECTADY, N. Y.—The contract for relaying pavement and resetting curbs on Union St. has been let to the Schenectady Contracting Co. for $15,066.

CAMDEN, N. J.—Bids are asked until July 9 for constructing the Sandy Lane macadam road, as is stated in our advertising columns. John J. Albertson, Co. Engr.; Irving Buckle, Dir.

NEWARK, N. J.—The following contracts for street improvement work have been let by the board of public works: Asphalt paving, Washington St., Barber Asphalt Paving Co., $21,600; granite paving, Washington St. (Market to Williams St.), J. R. Shanley, $8,184; asphalt paving, Morris Ave., Barber Asphalt Co., $45,954; Cutler St., John J. Connors, Philadelphia, brick, $13,268; Aqueduct St., John J. Connors, brick, $14,651; Library Court, John J. Connors, brick, $447; Warren St., Barber Asphalt Co., $5,880.

PATERSON, N. J.—Bids are asked until July 7 for grading and macadamizing the Clove Road in Little Falls township. E. N. Kevitt, Dir. Co. Freeholders.

PITTSBURG, PA.—Bids are asked until July 10 for the permanent improvement of the Freeport road, Division No. 4, and the Greensburg pike. Bond of $10,000. F. W. Patterson, Co. Rd. Engr., Room 29, Court House, Pittsburg; W. E. Thompson, Co. Compt.

WARREN, PA.—An election was held here July 1 to vote on the issuance of $20,000 paving and curbing bonds.

KENSINGTON, MD.—The council, according to reports, is to issue $5,000 of bonds for constructing sidewalks.

WASHINGTON, D. C.—Some of the larger appropriations for street work, taken from a local press report, are as follows: Providence St., macadamized, $5,500; R St., paved, $6,500; Kramer St., paved, $5,000; Kenesaw Ave., entrance to Zoological Park, grading, $10,000; Pennsylvania Ave. extended, graded, $10,000; 11th St. extended, graded and improved $15,000; New Hampshire Ave., graded and macadamized, $13,500; Rhode Island Ave., paved, $25,000; Connecticut Ave. extended, graded and macadamized, $10,000; Wisconsin Ave. and 37th St., graded and improved, $15,000; Mintwood Pl., graded and paved, $5,000; 14th St., graded and macadamized, $40,000; Decatur St., paving with asphalt, $12,000.

CHARLESTON, W. VA.—Local press reports state that a plan has been before the council by which funds are to be provided for about 40,000 yds. of paving.

GAINESVILLE, GA.—Bids are asked until July 18 for the purchase of $10,000 street improvement bonds, $20,000 sewer bonds and $20,000 school bonds.

LOUISVILLE, KY.—According to press reports, bids are asked by the board of public works until July 9 for paving seven streets and avenues with vitrified paving brick.

CINCINNATI, O.—The city engineer has been directed to prepare plans and specifications for the improvement of Witler St., from Blue Rock to Hamfield, with brick.

DAYTON, O.—Bids are asked until July 23 for 12,970 sq. yds. paving, 8,075 lin. ft. curbing, headers and circular curb, for Maple St. and Central Ave. Robt. H. Ferguson, Cy. Compt.

GREENVILLE, O.—Reports state that bids are asked until July 19 for constructing four miles of the Spencer pike in Allen township. E. Culbertson, Co. Audr.

UPPER SANDUSKY, O.—Bids are asked until July 24 for grading and stoning about 13,200 ft. of road in Eden township. E. N. Halbedel, Co. Audr.

YOUNGSTOWN, O.—The council has passed an ordinance to issue $19,500 of bonds for the improving of Holmes St.——The contract for paving Madison Ave. has been let to the Trinidad Paving Co., Cleveland, for $4,520.

ANDERSON, IND.—Reports state that bids are asked until July 27 for constructing 1½ miles macadamized drives and 50,000 ft. cement work in Maplewood cemetery. John P. Sear, Secy.

EVANSVILLE, IND.—Petitions have been presented to the public works board asking that First St., from Main St. to Fulton St., be repaired with asphalt.

GRANT, IND.—The contract for constructing one mile of the Shimholtz gravel road on the line between Washington and Van Buren townships has been let to H. C. Modlin and A. Overman for $2,167.

LANCASTER, MICH.—It is reported that the city engineer has estimated the cost of paving Franklin Ave. at $10,820.

MARSHALL, MICH.—An election is to be held July 29 to vote on the issuance of $25,000 of paving bonds.

MUSKEGON, MICH.—Bids were received until July 3 for the purchase of $50,000 of street improvement bonds.

RED JACKET, MICH.—Bids are asked until July 12 for constructing 36,000 sq. ft. cement sidewalk and 4,000 lin. ft. curbing. Wm. W. Stockley, Cy. Engr.; A. J. March, Village Clk.

CHICAGO, ILL.—A council committee on streets has recommended for passage an ordinance providing for a system of street improvements to cost $161,000 in the district bounded by 34th and 38th Sts., Western Ave. and Robey St.

ELGIN, ILL.—A petition for paving West Chicago St. with brick at estimated cost of $18,000 has been granted by the board of local improvements.

PEORIA, ILL.—Bids are asked until July 30 for about 9,800 sq. yds. brick paving, 5,950 cu. yds. excavation, 5,800 lin. ft. curbing, etc., on Peoria and Wisconsin Aves. H. E. Beasley, Cy. Engr.; E. A. Furry, Pres. Bd. Impvt.

CROOKSTON, MINN.—Local press reports state that bids are to be called for soon for constructing some 12 blocks of asphalt pavement and 15 or 20 blocks of granite pavement.

DULUTH, MINN.—The council has voted to instruct the board of public works to accept the bid of Burke Bros. for paving Tower Ave. The avenue will be paved with cedar blocks at a cost of about $55,000.

DULUTH, MINN.—W. B. Patton, Cy. Engr., writes us that bids will be received about July 14 for paving East Superior St., from 8th Ave. to 16th Ave., with sheet asphalt and Warren's bituminous macadam. About 20,000 sq. yds. of paving will be required.

GIBBON, MINN.—Bids are asked until July 11 for laying about four blocks of cement sidewalk. E. F. Maetzold, Village Recdr.

MINNEAPOLIS, MINN.—The council at its meeting June 27 ordered about 35,000 sq. yds. of sandstone, brick and concrete paving. The cost of the work is estimated at $60,000.

WALKER, MINN.—Bids will be received by the county auditor until July 15 for the purchase of $20,000 road and bridge bonds.

TOPEKA, KAN.—Reports state that bids are asked until July 7 for about 23 blocks of two-course brick paving on sand foundation. Jas. F. McCabe, Cy. Engr.; J. H. Squires, Cy. Clk.

KANSAS CITY, MO.—Bids are asked until July 21 for constructing curbing on various streets and avenues of this city. Robt. W. Waddell, Cy. Engr.

ST. LOUIS, MO.—A local press report states that $24,624 is to be spent at once on the public roads of St. Louis county. The expenditures will be made in macadamizing the Laclede Station and Rock Hill Roads, the Fine Road, Ferguson Ave., Delaware and Emmett Aves., the Hawkins, Fuchs and Meramec Bottom Roads and the Old Jamestown Road.

DALLAS, TEX.—A local report states that the street railway company has deposited with the mayor $66,580, the amount estimated by the city engineer as the cost of the repaving to be done under the terms of the franchise granted the company.

BODIE, CAL.—According to reports State Highway Commissioner Nathaniel Ellery will let, during the early part of July, a contract for building the Tioga Road through the Levining Creek Canyon. About $15,000 is on hand for building this road.

GENESEE, IDAHO.—The contract for paving in this city has been let to Holland & Warren, Lewiston, Idaho, for $9,600.

LEWISTON, IDAHO.—Local press reports state that an ordinance has been before the council calling for an election to authorize the issue of $10,000 of street improvement bonds.

TORONTO, ONT.—Bids are soon to be asked for the following local improvements: Asphalt pavements on three avenues, estimated cost $28,800; brick pavement, York St., $5,595; macadam roadway, Noble St., $955; concrete sidewalks on 23 streets and avenues, $24,061.——City Clerk Littlejohn gives notice of local improvements to be made as follows: 24-ft. macadam roadway with 4-in. stone curbing and brick crossings on Maitland St., $3,455; Wells St., $5,190; cement sidewalks, three streets, $2,342.

MANUFACTURING PLANTS.

BUFFALO, N. Y.—The Great Lakes Glass Co., it is said, will build glass works at West Seneca, just outside the southern city line of Buffalo. Three acres of land have been purchased as a site, and work on the proposed plant will soon begin. A. H. Rodebush is interested.

PLATTSBURG, N. Y.—J. D. Powers, of Schuylersville, N. Y., has purchased the pulp mill of the Fredenberg Falls Pulp Co., located about four miles above this city on the Saranac River, and will at once erect a paper mill with a capacity of 100 tons of paper per day.

UTICA, N. Y.—The Regal Textile Co. has purchased the Chas. A. Mann property on Broad, Main and Second Sts., and will erect a new mill, to be four or five stories, 156 × 60 ft.

MOORESTOWN, N. J.—Thos. Stephens, Arch., Masonic Temple, Camden, has plans in progress for a 2-story brick and iron storage battery house for the Camden & Suburban Ry. near this place.

JENKINTOWN, PA.—Plans for the ice plant for the Jenkintown Mfg. Co. have been completed and bids for the building and machinery will soon be taken by the engineers, Holt & Shaber, Bourse Bldg., Philadelphia.

PERKIOMEN, PA.—Peter Kuhn, Arch., 10th and Diamond Sts., Philadelphia, has completed plans for a 2-story brick and frame brick manufacturing plant, 400 × 700 ft. The contract will be let by day's labor. The architect will purchase the machinery and equipment.

PHILADELPHIA, PA.—Plans have been completed by Frank R. Watson, Arch., 1208 Chestnut St., for a 4-story brick and steel factory addition, 88 × 40 ft., fireproof in construction, for the Samuel W. Evans Co. at Frankford.

PHILADELPHIA, PA.—The Standard Roller Bearing Co. has purchased ground in this city for the site of a new plant, to measure 200 × 150 ft. Work has already been started on the new buildings, each to be 200 × 60 ft. Further extensions are to be eventually made.

PITTSBURG, PA.—The H. C. Frick Coke Co. is reported to be preparing to build a number of coke ovens in West Virginia.

PITTSBURG, PA.—The W. W. Lawrence & Co., paint manufacturers, have awarded a contract to the Drake & Stratton Co. and George Hogg, of Braddock, for the erection of a 6-story fireproof factory building, 100 × 170 ft., to be erected in Carson St., at a cost of $150,000.

RICHMOND, VA.—The Butler & Bosher Tobacco Co. has been granted a charter with a capital stock of $500,000. The company will succeed the firm of Butler & Bosher, which is now operating a factory at 24th and Franklin Sts., and erect a new factory at 20th and 21st Sts.

KERSHAW, S. C.—A temporary organization has been effected here and a charter applied for for a $25,000 cotton seed oil mill of 40 tons capacity, to be located in the northern suburbs of the town. John T. Stevens is Pres.

BIRMINGHAM, ALA.—The De Bardeleben Coal & Iron Co. is preparing to build 200 coke ovens on the line of the Alabama Great Southern R. R., in Tuskaloosa county.

KNOXVILLE, TENN.—A site for a plant to manufacture tannic acid is being sought for by Eugene Horton, S. R. Savidge, W. B. Riddell and other representatives of the United States Leather Co.

NASHVILLE, TENN.—The question of doubling the capacity of the plant of the National Fertilizer Co. is said to be under consideration. The plant at present has a capacity of 15,000 tons per annum.

CANTON, O.—It is announced that the United States Steel Co., of Canton, will shortly be incorporated with $500,000 capital stock, to build an open-hearth furnace at this place.

CLEVELAND, O.—The Cleveland Pneumatic Tool Co., Cleveland, has purchased a tract of land on Hawthorne and Second Aves. and will at once begin the erection of new factory buildings. Electrical power will be used in driving the machinery. About 150 men will be employed. W. H. Cole, Secy.

WARREN, O.—The Peerless Electric Co., capitalized at $500,000, will erect a large plant in this city. T. H. Gillmer has been elected president.

CHICAGO, ILL.—It is announced that the United States Steel Corporation is to spend upward of $10,000,000 in improvements in South Chicago and Joliet.

MILWAUKEE, WIS.—The Smith Paint & Varnish Co. has purchased a site at West Allis for a $50,000 paint and varnish plant, to be a brick structure three stories high.

KANSAS CITY, MO.—Reports from this city state that $3,100,000 has already been subscribed of the $10,000,000 to be invested for the construction of a cotton mill plant within 20 miles of this city, to have 500,000 spindles and 12,000 looms, and to employ about 4,000 hands. The capacity of the plant will be 170,000 bales of cotton a year, with an output of 75,000,000 lbs. of finished cloth. Electricity will be used as motive power for the plant and several new devices will be installed. There will be four mill buildings, covering an aggregate of 2,000 acres of land. Edward F. Swinney, Pres. First National Bank; W. S. Woods, Pres. National Bank of Commerce of Kansas City; H. C. Flower, Pres. Fidelity Trust Co. of Kansas City, and a number of other prominent business men are interested in the enterprise.

MADISON, MO.—It is reported that the Moran Bolt & Nut Co., of St. Louis, and Luther McGilvery, of Madison, will rebuilt the rolling mill formerly conducted by the Hager Steel & Iron Co. at this place. The mill was burned several months ago. About 500 hands will be employed.

FREDERICKSBURG, TEX.—E. F. Evans, Pres. Evans Cold Water Tank Co., writes us that the company wants to buy an established factory for the manufacture of a non-leaking tank, preferably on the Gulf coast.

COLTON, CAL.—It is reported that the directors of the California Portland Cement Co. will expend $100,000 in improvements. New machinery costing about $80,000 will be installed.

OAKLAND, CAL.—The officials of the Southern Pacific R. R. have under consideration the plans for the construction of new shops and a round house on the new fill adjoining the present shops at the West Oakland yards.

SALT LAKE CITY, UTAH.—Local papers report that D. C. Dunbar has returned from the east, where he has succeeded in interesting capital in the new sugar plant for Gunnison. The plan involves a capitalization of $1,000,000, most of which will be subscribed by outside people. The plant involves the establishment of a central factory at Gunnison, with pipe lines and cutting stations in Sevier and Sanpete counties.

GALT, ONT.—The Maple Leaf Saw Works, at Galt, owned by Shurly & Dietrich, was destroyed by fire on June 21 at a loss of $75,000.

HAMILTON, ONT.—E. B. Patterson, Arch., writes that the new buildings to be erected by the Deering Harvester Co., will be one and two stories high, 84 × 300, 72 × 353 and 72 × 250 ft., of brick, wood and iron construction; all equipped with the latest appliances, including water-sprinkling apparatus and sewerage systems.

MISCELLANEOUS CONTRACTS.

ROAD ROLLER.—Pasadena, Cal.—Reports state that bids are asked by the city clerk until July 14 for an improved road roller.

DITCH BONDS.—Crookston, Minn.—Bids are asked until July 8 for the purchase of $26,400 ditch bonds. John Petterson, Co. Audr.

STEAM ROAD ROLLER.—Pasadena, Cal.—Reports state that bids are asked until July 14 for sale to city of 10-ton steam road roller. Heman Dyer, Cy. Clk.

STONE CRUSHING PLANT.—Westerly, R. I.—The council has voted an appropriation of $2,500 for the purchase of a stone crushing plant and the necessary appurtenances.

ASPHALT REPAIR PLANT.—Toronto, Ont.—Tenders are shortly to be called for a municipal asphalt repair plant, for which the city has authorized an expenditure of $23,000.

COAL.—New Orleans, La.—Bids are asked until July 14 for furnishing a supply of coal for six months to the several drainage machines. R. M. Walmsley, Pres. Drainage Comn.

ELECTRIC TRAVELING CRANE.—Chicago, Ill.—Bids are asked until July 11 for furnishing electric traveling crane of 20-ton lifting capacity. F. W. Blocki, Comr.

GRAIN ELEVATOR.—Minneapolis, Minn.—The Brooks Elevator Co. has taken out a permit for the erection of a $25,000 iron-clad grain elevator on the Northern Pacific right of way.

PORTLAND CEMENT.—New York, N. Y.—Bids are asked until July 8 for furnishing the department of docks and ferries with 10,000 bbls. Portland cement. McDougall Hawkes, Comr. Docks.

SHIP BUILDING.—Cleveland, O.—A local press report states that the American Shipbuilding Co. has recently booked orders for constructing eleven freight steamers that will cost about $2,000,000.

LEVEE.—Alexandria, La.—Reports state that bids are asked until July 16 for constructing Bayou Petite Prairie, South Levee, on Atchafaloza River, St. Landry Parish. J. R. Thornton, Secy. Levee District.

COPPER WIRE.—New York, N. Y.—Bids are asked by the fire commissioner, 157 East 67th St., until July 10 for furnishing about 20 miles No. 10 B. & S. gage, copper telegraph wire. Thos. Sturgis, Comr.

SEA WALL.—Albany, N. Y.—Bids are asked until July 10 for building a sea wall between the Sound and Orient Harbor, on Long Island, as is stated in our advertising columns. Chas. S. Boyd, Supt. Pub. Wks.

WHARF BOAT, ELEVATOR.—Memphis, Tenn.—A local report states that the River & Rail Storage Co. is to spend about $25,000 in building a wharf boat and elevator on their recently purchased property at Georgia St.

DREDGING.—Buffalo, N. Y.—Reports state that the Lake Erie Dredging Co. has been removing rocks from the Erie Basin channel preparatory for a survey to govern the $50,000 dredging contract to be let by the state.

FIRE AND POL[illegible] BOXES.—Norwood, O.—The council has been considering the question of installing a system of fire and police patrol boxes similar to that of Cincinnati. P. O. Station H, Cincinnati.

STEAM FIRE ENGINE.—Maumee, O.—We are informed that a tax has been levied for the purchase of a steam fire engine, and that one is to be bought as soon as possible. The chief of the fire department is in charge of the matter.

EARTHWORK.—New Orleans, La.—Bids are asked until July 8 for constructing about 1,000,000 cu. yds. of earthworks, enlarging levees in the Pontchartrain levee district. Major G. McDerby, U. S. Engrs., 3232 Prytania St., New Orleans, La.

LIGHT-HOUSE TENDER.—Washington, D. C.—Bids are asked by the light-house board until July 10 for material and labor for constructing the twin screw steel steam light-house tender "Crocus." Rear Admiral Geo. C. Remy, U. S. N., Chn.

PIER RECONSTRUCTION.—New York, N. Y.—The following bids were received last week for reconstructing the pier at South Fifth St.: Bernard Rols, $21,733; John Monk & Son, $22,000; Wm. H. Jenks, $21,923. The contract was let to Rols.

WATERWAY.—Sandusky, O.—City Engineer Miller has made a survey of the bay for the establishing of a deep waterway from the existing channel to Big Island. A rough estimate places the cost of the work at between $350,000 and $500,000.

AERIAL TRAMWAY.—Cheshire, Mass.—It is reported that plans for an aerial tramway for the mines of the Cheshire Lime & Cement Co., Thos. A. Barrington, Pres., are being prepared. The tramway is to carry the lime rock over a 900-ft. mountain.

FIRE ALARM SYSTEM.—Long Island City, N. Y.—The Newtown and Jamaica local boards have approved of resolutions requesting the New York board of aldermen to authorize a $45,000 bond issue for repairing and maintaining fire alarms in the borough.

PIERS.—New York, N. Y.—Reports state that the C. R. of N. J. has offered to give to the city its ownership in piers 12 and 14, provided the city will construct two new piers to be leased to the company for ten years. Dock Commissioner Hawkes is said to favor the proposition.

COAL MINE OPENING.—Wheeling, W. Va.—Hoge & Cresap, Engrs., write us that the mine owners who have been advertising for bids until July 1 for sinking a 60-ft. coal mine shaft have decided to do nothing further at present, but to return all bids and advertise again later.

WIRELESS TELEGRAPHY.—Washington, D. C.—Gen. Greely has entered into a contract with the Marconi Wireless Telegraph Co. for the erection of two wireless telegraph stations connecting Fort Gibbon, Alaska, and Bates Rapids, on the Tananap, a distance of 165 miles in an air line.

SUBWAY.—Chicago, Ill.—A press report states that ex-Mayor Washburne, Wm. A. Alexander and S. S. Gregory will soon ask the council for permission to build a subway extending to all parts of the city and honeycombing the entire downtown district. An expenditure of between $40,000,000 and $50,000,000 is contemplated.

TELEGRAPH WORK.—Tacoma, Wash.—According to reports, it is proposed to put in land cables in various places of the Yukon telegraph line, owing to the fact that the overhead wires are frequently down during the winter. The line was built by the Dominion government from Ashcroft to Klondike at a total cost of $768,224.

AQUEDUCT, ETC.—Oneida, N. Y.—Applications have been made to the State Canal authorities for permission to construct a large aqueduct under the Erie canal at Durhamville to carry off the water of Oneida Creek, and for the enlargement of the sluices under the canal feeder for Higinbotham Bros., and the state ditch near Durhamville.

RIVER STRAIGHTENING.—Buffalo, N. Y.—Surveys are under way preparatory to the straightening of Buffalo River, and, according to the report, actual dredge work may be begun late in the summer. This work will eventually extend the inner harbor. The completion of the breakwater will also add four miles of possible dockage.

DRAINAGE WORK.—Miami, Fla.—A local press dispatch states that Florida East Coast Drainage & Sugar Co. proposes to drain and cultivate about 1,000,000 acres in the southeastern part of the Everglades swamp. The company intends to accelerate the natural drainage of this section by removing headwater barriers and cutting new channels.

DREDGING.—Boston, Mass.—Contracts were awarded last week by the harbor and land commissioners for dredging an anchorage basin in the harbor 1,000 ft. wide and one mile long. Section 1 was awarded to the New England Dredging Co. and Eastern Dredging Co., of Boston, and the other three sections went to G. H. Breymann & Bros., Toledo, O.

SHIP CANAL.—Boston, Mass.—The harbor and land commissioners have issued their supplementary report on the proposed ship canal from Taunton River to Boston Harbor. Some of the principal items are as follows: Earth excavation, $12,039,005; rock excavation, $8,064,567; backing and filling, $6,500,000; culverts, retaining walls, etc., $1,495,660. The total cost for locks, operating machinery, etc., makes a total of $12,233,000. While the grand total cost for the work foots up $57,618,358.

U. S. POSSESSIONS AND CUBA.

REMOVING WRECK.—Havana, Cuba.—Reports state that the Navy Dept., Washington, D. C., is again considering the matter of removing the wreck of the battleship "Maine," lying in Havana Harbor.

SEWER PIPE.—San Juan, P. R.—Bids are asked until July 18 for furnishing about 10,000 ft. of 15 to 6-in. sewer pipe, 400 Ys, etc., as stated in our advertising columns. J. A. Canals, Cy. Engr.; Manuel Egozcue, Mayor.

DRY DOCK.—New York, N. Y.—Local press reports state that plans have been made and property secured for the construction of a dry dock. The reports state that the dock is to be constructed by the new shipping combination recently incorporated with a capital of $37,000,000.

RAILWAY.—Alaska.—Reports state that S. B. Howard, Pres. Trans-Alaska Consolidated Ry. Co., Seattle, Wash., is preparing to begin work at once on the proposed line from Cook's Inlet to Nome, about 650 miles. The work will cost $20,000 a mile. F. Tillmann, Jr., of Tillmann & Bendel, of San Francisco, Cal., is Pres.

LUMBER MILL, ETC.—Manila, P. I.—The Philippine Lumber Development Co. has been incorporated, with a capital of $600,000, by Capt. F. E. Green and others to build a sawmill, furniture factory, etc., in Manila. The company has offices in San Francisco and Seattle, Wash.

ELECTRIC RAILWAY.—Honolulu, H. I.—The Pacific Heights R. R. Co. has completed plans for an electric railway up Tantalus Ridge.

FOREIGN CONTRACTS—EXPORT NEWS.

SWING BRIDGE.—Egypt.—Bids are asked until July 25 for a steel swing bridge, with two spans. Address Inspector of Irrigation, 3d Circle, Alexandria, Egypt.

ELECTRIC RAILWAY.—Buenos Aires, Argentina.—Reports state that Varela Cuneo & Co., of Buenos Aires, propose to build an electric railway from Rivaldavia to Tigie.

STEEL PLANT.—New South Wales.—Reports state that the Eskbank Iron & Steel Rolling Mills, at Lithgow, N. S. W., have been secured by a new company, which expects to build new blast furnaces, rolling mills, etc.

RAILWAY.—Argentina.—Bids are asked until Aug. 31 by the ministry of public works, Buenos Aires, for constructing a railway from Jujuy to La Quiaca, on the Bolivian frontier, a distance of about 286 kilome. Deposit, $5,000.

RAILWAYS.—China.—Press reports state that an American syndicate has been granted a concession for a railway from Pekin to a point on the Yang Tse River opposite Kiukiang. Another U. S. syndicate is said to have asked for a charter to build a railway from Amoy to Hankow. The capital is 20,000,000 taels.

ELECTRIC PLANT.—Amsterdam, Holland.—Bids are asked by the city council until Sept. 1 for furnishing the wires, etc., for the proposed electric plant and power house, to cost about $3,800,000. The engines, dynamos and the installation will be furnished by German and Dutch manufacturers, according to a report from U. S. Consul F. D. Hill, of Amsterdam.

PUBLIC WORKS.—Spain.—Bids are asked by the ministry of public works, Madrid, until July 7 for constructing port works in San Feliu de Guixals, Gerona, to cost about $540,000, and for metal work for a wharf at Barcelona, to cost $110,000. The Compania Electrica Madrilena de Traction has been granted a concession for an electric railway from Madrid to Caracas.

BUILDINGS.—Paris, France.—M. Albert Boyer, of Hughes, La Roe & Co., builders and contractors, of Paris, is visiting the United States to study the construction of high buildings, and while here will endeavor to engage the services of four men experienced in the construction of high buildings to superintend the erection of a 20-story apartment house in Rue de la Matin, Paris, costing approximately $1,200,000, to be constructed by his firm.

RAILWAYS.—Mexico.—C. B. Eames, Pres. Tuxpam Valley Ry. Co., Mexico City, Mex., and St. Louis, Mo., is reported to have been granted a concession for a railway from Tuxpam to Jabonera, about 70 miles distant. Capital stock, $600,000. Work will be begun at once. Geo. W. Deits is Vice-Pres. and Gen. Mgr., Mexico City. ——The Occidental Construction Co. has been incorporated, with a capital of $120,000, by Chairman Thomas, of the Erie R. R., New York, President Spencer, of the Southern R. R., Washington, D. C., and President Loree, of the B. & O. R. R. Co., Baltimore, Md., to build a small railway on the west coast of Mexico.

CEMENT MAKING MACHINERY.—Mexico.—V. Cascino, contractor, P. O. Box 911, Mexico City, writes us that he wishes bids for new and second-hand machinery for a Portland cement factory of 50 or 100 tons daily capacity. The cement is to be made by the dry process from hard limestone and very soft clay containing iron oxide. This plant is to be built by two leading Mexican capitalists, who expect to form a company with a capital of $1,000,000, silver. It is desired to secure foreign capital to the extent of $100,000, gold, provided the persons have had experience in cement making. Mr. Cascino says that he will give more information to those interested in the matter.

CONTRACT PRICES.

ASPHALTUM PAVING.—Los Angeles, Cal.—The Fairchild & Gilmore-Wilton Co. is reported to have been awarded the contract at 17 cts. a sq. yd. for asphaltum pavement complete, including foundation. The Alcatraz Asphalt Paving Co. bid 17.5 cts. for the last work of this kind.

CAN AND BOX CARRIERS.—New York, N. Y.—Thos. F. Galvey, Law Clerk, Dept. Street Cleaning, 21 Park Row, writes us that the following bids were received June 26, 1902, for furnishing 300 combination cans and box carriers: Fox Bros. & Co., 24 Vesey St., $12.50; Chas. H. Voss, 509 E. 18th St., $14.25; U. S. Trading Co., 111 Reade St., $17.89.

BRICK PAVING.—Geneva, N. Y.—The board of public works received the following bids June 12, 1902, for paving in three streets: Thos. Fitzgerald, of Fredonia, N. Y., excavating, 30 cts.; brick pavement laid on 6 ins. of concrete, according to the variety of brick used: Corning brick $1.80 per sq. yd., Johnsonburg block $1.80, Johnsonburg repressed $1.84, Corning repressed $1.69; furnishing and laying curb, 64 cts.; catchbasins, $30; complete trap-rock macadam pavement, 95 cts. per sq. yd., and for the limestone facing 85 cts. (accepted, total $33,541); H. D. Dennison, of Syracuse, 35 cts. for the excavating and for the complete brick paving as follows: Mack block, $2.10; Johnsonburg, $2.02; Corning block, $2.02; Corning

wire cut, $1.93; for catchbasins, $30; Henson & Hennessey, Geneva, excavating, 35 cts., and to lay the brick on 6-in. concrete as follows: Metropolitan block, $2; Corning block, $1.77; Mack brick, $2; Johnsonburg brick, $1.88; catchbasins, $30; complete trap-rock macadam, $1; limestone, 90 cts.; curb, 67 cts.; John Dunfee, of Syracuse, excavating, 35 cts; lay complete brick pavement: Syracuse brick, $2.10; Metropolitan block, $2.45; Mack brick, $2.25; catchbasins, $30; macadam, lay trap rock, 60 cts.; limestone, 30 cts.

BUILDINGS, ETC.—Cincinnati, O.—The following bids were received June 24 for furnishing buildings, foundations and drains for the tandem pumping station:

Bids Received at Cincinnati, O., June 24, 1902, for Erecting a Tandem Pumping Station.

Quantities and Items.	Andrew Dall & Son, Cleveland, O.	F. H. Kirchner & Co., Cincinnati, O.	U. S. Const'n Co., Milwaukee, Wis.	John Gill & Sons, Cleveland, O.	W. J. Gawne Co., Cincinnati, O.	C.H.Fath Const'n Co., Cleveland, O.
Engine house	$98,323	$90,000	$75,600	$87,100	$83,300	$83,000
Three pump-main pits	892	900	989	925	875	890
Boiler house	75,987	75,000	68,900	82,200	74,300	79,000
Foundations for boilers and economizers	1,055	1,300	1,475	1,625	1,375	1,500
Foundations for feed-water pumps	75	60	48	90	65	100
Air ducts and foundations for fans and fan-engines	399	600	700	800	1,100	710
Wells and ducts for steam, feed-water and blow-off pipes	655	1,400	1,492	1,300	1,200	1,180
Water-closet vault	508	500	547	600	565	495
Blow-off pit	229	420	464	460	412	332
Flue connection between boiler house and chimney	508	500	679	615	592	490
Annex building	23,751	18,000	15,750	16,300	14,400	15,700
Concrete in foundation (elect. machinery) .. 82 cu. yds.	7.50	9.00	8.90	8.75	8.50	7.50
Same for coal shed and trestle approach. 1,353 " "	9.00	9.00	8.90	8.75	8.50	7.50
Stone coping for shed and trestle approach 104 " "	24.00	16.00	20.00	27.00	25.50	19.00
6-in. sewer-pipe drains, furnished and laid. 1,050 lin. ft.	.28	.50	.50	.48	.39	.44
8-in. drains 256 " "	.32	.60	.60	.66	.58	.55
8-in. " on paved slope 165 " "	.50	1.00	1.25	1.50	1.14	.98
8-in. " on riprapped slope 10 " "	.50	1.00	1.00	1.50	1.14	1.00
4-in. cast-iron pipe laid 340 " "	.38	.60	.60	.25	.30	.15
6-in. " " " 520 " "	.40	.50	.52	.30	.36	.23
8-in. " " " 30 " "	.46	.80	.55	.40	.45	.38
Laying one 4-in. water valve and curb	6.00	10.00	6.00	7.50	5.00	13.00
" " 6-in. water valve and curb	6.50	10.00	6.50	7.50	6.75	14.00
" " fire hydrant outside of building	6.50	15.00	11.00	15.00	10.00	18.00
" " 4-in. vert. branch and one 4-in. water valve	8.00	10.00	11.00	15.00	12.00	30.00
Three head walls for pipe drains	270.00	200.00	315.00	150.00	190.00	200.00
Total	$218,781	$204,846	$183,231	$208,763	$194,317	$197,367

LAYING BRICK PAVEMENT.—Fall River, Mass.—Aug. J. Langfeld & Co., of Worcester, Mass., have been awarded the contract at 72 cts. a sq. yd. for laying about 200,000 paving brick, which will be furnished by Wm. Beattie and Dubevoir & Savoie. The contract includes everything but furnishing the brick, making the cost of the work about $1.95 a sq. yd.

BRICK PAVING.—Bridgeport, Conn.—E. T. Buckingham, Cy. Clk., writes us that the following bids were received June 23, 1902, for 8,500 sq. yds. of brick paving: Silliman & Godfrey bid $2.80 for Mack block and $2.76 for Porter block, and F. L. Pidgeon $2.68 for Mack block and $2.55 for Porter block:

Bidder.	Brick. Mack.	Porter.	Syracuse.
Silliman & Godfrey, Bridgeport	$2.78	$2.73	$2.70
B. D. Pierce, Jr., Co., Bridgeport	2.85	2.80	2.80
C. W. Blakeslee & Sons, New Haven	2.79	2.725	2.715
F. L. Pidgeon, Saugerties, N. Y.	2.66	2.46	2.61

DREDGING.—Philadelphia, Pa.—The following bids were received by Capt. Spencer Cosby, U. S. Engr., June 23, 1902, for dredging the Delaware River near Reedy Island, and for constructing a retaining bank for dredged material, near Stony Point Shoal: (1) 1,000,000 cu. yds. excavated from channel and deposited; (2) 25,000 cu. yds. material for retaining wall; (3) 1,000 short tons of riprap; (4) number of dredges and scows:

Bidder.	cts. 1.	2.	3.	Total.	4.
Morris & Cumings D. Co., N.Y.	15.0	25	$1.00	$157,250	2
River-Harbor Imp. Co., Phila.	12.0	50	2.00	134,500	2 & 7
Am. Dredging Co., Phila.	8.4	40	2.00	96,000	3 & 12
Maryland D. & C. Co., Balt.	10.0	40	2.50	112,500	2 & 8

SIDEWALKS.—Buffalo, N. Y.—The following bids were received June 16, 1902, for sidewalks, etc.: F. W. Knickenberg and Tabay & Delehanty both put in bids declared to be informal; contract awarded M. Sullivan:

Bidder.	Sidewalks Wooden.	Repairing.	Crosswalks New.	Repairing.	Grading.
Engineer's estimate	$0.27	$0.06	$0.37	$0.06	$0.37
F. W. Knickenberg	.245	.06	.29	.005	.29
Tabay & Delehanty	.238	.06	.27	.01	.12
L. H. Nagle	.89½	.24	.053	.329	.053	.329
M. Sullivan	.84½	.227	.051	.311	.051	.311

BRICK PAVING.—Alexandria, Va.—E. C. Dunn, Cy. Engr., writes us that the following bids were received June 12, 1902, for brick paving: (1) price for vitrified block paving a sq. yd. complete; (2) for straight granite curb, and (3) for circular granite curb, the two curbing prices being a lin. ft.:

	1.	2.	3.
Smith & Co., Alexandria, Va.	$2.20	$1.15	$1.75
Patterson & Co., Baltimore, Md.	2.35	.70	1.25
W. C. Weadon, Alexandria, Va.	2.23	.93	1.14
Cranford & Co., Washington, D. C.	2.33	.85	1.11
Lyons Bros., Brookland D. C.	2.83	1.17	1.40
Crowther & Co., Alexandria (accepted)	2.08	.86	1.24

ASPHALT PAVING.—Glens Falls, N. Y.—H. F. Palmer, Village Clk., writes us that the Barber Asphalt Paving Co., New York, was awarded the contract June 19, 1902, at $2.29 a sq. yd. for about 3,000 yds. of asphalt paving, including excavation. The other bids for paving were reported as follows: C. J. Reardon, Glens Falls, N. Y., Mack vitrified block or McMahon & Porter block, with 6-in. Portland cement concrete, $1.76 per sq. yd.; same blocks with American hydraulic cement, $1.70; excavating, 30 cts. sq. yd.; will load on wagon for 18 cts. sq. yd.; Anderson & Thomas, Glens Falls, Mack block, with Portland cement, $2.10 per yd.; with American hydraulic cement, $2.06; excavating, 19 cts. a yd., including drawing same 1,800 ft.; add ½-ct. for every additional 100 ft.; will load earth on corporation wagons for 8⅝ cts. a yd.; Hastings Pavement Co., New York, block asphalt, 5 × 12 × 3, with 4-in. Portland cement and 1½-in. mortar top, $2.10 a yd.; with American cement, $2.05; excavation, 18 cts. per yd.; will use Iron Clad Portland or Beach's Rosendale cement; D. V. Brown, 2d, Glens Falls, Porter block, with Portland cement concrete, $2.11½ a yd.; with American hydraulic cement, $2.04 a yd.; Mack block, Portland cement, $2.14 a yd.; American hydraulic, $2.07; excavation, earth loaded on corporation wagons, 10 cts. a yd.; excavating and hauling not to exceed 2,000 ft., 21 cts.; for every 500 ft. additional, 2 cts. extra.

DREDGING.—Boston, Mass.—We are informed that the board of harbor and land commissioners received the following bids June 26, 1902, for dredging an anchorage basin in the harbor 1,000 ft. wide and a mile long, as advertised in Engineering News; the work will be done in four sections, dock containing 650,000 cu. yds. of excavation and a portion of the material taken from a part of Sec. 1 will be used for filling in the Commonwealth Flats at South Boston: (A) for Sec. 1, (B) for Sec. 2, (C) for Sec. 3, (D) for Sec. 4: The Eastern Dredging Co., 247 Atlantic Ave., and New England Dredging Co., 185 Sumner St., (A) 16 3-10 cts, 19 3-10 cts., 18.5 cts.; (B) 19 3-10 cts.; (D) 16 3-10 cts.; G. H. Breymann & Bros., Toledo, O., (A) 15 cts and 30 cts.; (B) 15 cts.; (C) 15.5 cts.; (D) 16 cts.; Bay State Dredging Co., 19 High St., (A) 19.75 cts., 19.5 cts., 20 cts.; Morris Cummings Dredging Co., 17 State St., (A) 16 cts.; (B) 17 cts.; (C) 16 7-10 cts.; (D) 16.5 cts.; Chas. M. Cole, Fall River, Mass., (B) 20.5 cts.; (C) 24 cts.; J. S. Packard Dredging Co., 425 Angell St., Providence, R. I., (B) 24 cts.; Daly & Hannon, Ogdensburg, N. Y., (B and C) 25 9-10 cts. Contract for Sec. 1 let to the N. E. and the Eastern Dredging Cos.; Secs. 2, 3 and 4 to G. H. Breymann & Bros.

INDUSTRIAL NOTES.

L. J. WING MFG. CO., New York, manufacturers of fans, blowers, gas engines, etc., have moved to 251 West Broadway.

THE BABCOCK & WILCOX CO., New York, is said to have orders aggregating 47,000 HP. for boilers for the British Navy.

THE J. L. MOTT IRON WORKS, New York, announces the opening of new show rooms at 110 Fifth Ave. for the exhibit of its plumbing goods.

THE DIXON GARBAGE CREMATORY CO., Toledo, has been awarded the contract for a crematory plant for the government at San Juan, P. R.

THE PENNSYLVANIA STEEL CO., Steelton, has moved its Northwestern office to the Western Union Bldg., Chicago, with Clifford J. Ellis Sales Agent and Robert E. Belknap Assistant Sales Agent.

THE CLEVELAND PNEUMATIC TOOL CO., Cleveland, has purchased land at Hawthorne and Second Aves. for the erection of a new factory, to employ 150 men. The growth of its business has made this change necessary.

THE AMERICAN STEEL & WIRE CO., Chicago, report the receipt of 10 gold, 4 silver and 4 bronze medals at the South Carolina Inter State & West Indian Exposition, which closed May 31, these medals representing the highest awards in each class.

THE PITTSBURG FILTER MFG. CO., Empire Bldg., Pittsburg, is building for the Sharon Water Co., Sharon, Pa., a gravity filter plant of 2,000,000 gallons daily capacity. The plant is provided with large sedimentation tanks with cone-shaped bottoms, and can be used for softening as well as filtering purposes.

W. N. WIGHT & CO., 160 Fifth Ave., New York, have a contract from the White Mountain Paper Co. for lock-woven steel fabric for use in the fireproof buildings of its entire plant, which will cover, when completed, about 18 acres at Portsmouth, N. H. It is claimed that this will be the largest paper manufacturing plant in the country.

H. K. PORTER CO., Pittsburg, have just completed and shipped four locomotives to Bilbao, Spain. They are mogul design, meter gage, cylinders 16 ins. diameter by 24 ins. stroke, and are duplicates of a previous shipment. It is claimed that the railway company found the American built locomotives superior to those previously used, which were built by English manufacturers.

PAWLING & HARNISCHFEGER, 167 Clinton St., Milwaukee, report a large demand for its electric cranes and hoists, the present booking of orders averaging one crane a day, which fully equals the capacity of their works. Recent purchasers include the Pennsylvania R. R. Co., West Philadelphia; Grand Crossing Track Co., Chicago; Stanley Electric Mfg. Co., Pittsfield, Mass., for Michigan Lake Superior Power Co., Sault Ste. Marie, Mich.; S. Morgan Smith Co., York, Pa.; Pressed Steel Car Co., Allegheny, Pa.; Westinghouse Machine Co., East Pittsburg; Pittsburg Plate Glass Co., Ford City, Pa.; Bethlehem Steel So., South Bethlehem, Pa.; A. & F. Brown Co., Elizabethport, N. J.; Jas. B. Clow & Sons, Newcomerstown, O.; American Foundry & Construction Co., Hazlewood, Pa.; Buffalo Foundry Co., Buffalo, N. Y.; Ball Engine Co., Erie, Pa.

THE STANDARD ROLLER BEARING CO., 2326 Market St., Philadelphia, has purchased the roller bearing business of the Roller Bearing & Equipment Co., Keene, N. H. It has purchased 2½ acres of land and commenced work on a new plant on the main line of the Pennsylvania R. R. within 10 minutes' ride of the Philadelphia City Hall. The main buildings will be about 200 × 60 ft.

THE TATNALL ENGINEERING CO., Arcade Bldg., Philadelphia, report the following orders for Alphons Custodis radial brick chimneys: Jewish Hospital Association, Philadelphia, chimney 110 ft. high, 4½ ft. diameter; Pennsylvania Steel Co., Steelton, Pa., chimney 125 ft. high, 6½ ft. diameter; Atlantic Refining Co., Philadelphia, chimney 100 ft. high, 6 ft. diameter; West Pennsylvania Ry., Connellsville, chimney 184 ft. high, 10 ft. diameter; Peerless Silk Dye Works, Kensington, chimney 90 ft. high, 3½ ft. diameter.

WM. B. SCAIFE & SONS CO., Pittsburg, owners of the Wefugo, a cold intermittent system, and the Scaife, a hot continuous system of softening and purifying water, report the following recent contracts: Hecla Portland Cement & Coal Co., North Bay, Mich., 1,500 HP., and at West Branch, Mich., 500 HP.; Isaac Harter Co., Fostoria, O., 1,000 HP.; A. A. Simmonds & Son, Dayton, O., 200 HP.; American Sheet Steel Co., New Philadelphia, O., 1,300 HP.; National Mining Co., Pittsburg, 1,000 HP.; Antrim Iron Co., Mancelona, Mich., 1,500 HP.; Ashtabula Worsted Mills, Ashtabula, O., 96,000 gallons a day; W. D. Boyce Paper Mills Co., Marseilles, Ill., 1,250,000 gallons a day.

THE PITTSBURGH GAGE & SUPPLY CO., Pittsburg, has secured through Victor Beutner, Engr., Westinghouse Bldg., Pittsburg, an order for one pair of 600-HP. engines built by Brown Corliss Engine Co., Corliss, Wis., to drive direct-connected electric generators at 136 R. P. M. in the new mill of the Susquehanna Iron & Steel Co., Lancaster, Pa. The company has also orders for one complete White Star filtering system for the new plant of the West Moreland Light & Power Co., Greensburg, Pa., of which James Bryan, Park Bldg., Pittsburg, is the electrical engineer; and from the Hoover, Owens & Rentschler Co., Hamilton, O., for supplying two cross-compound engines of their manufacture with a White Star filtering system, these engine being for the power plant of the Cincinnati, Georgetown & Portsmouth Ry.

NEW COMPANIES.—Continental Brick Co., 419 Market St., Camden; $250,000; Samuel O'Neill, E. O. Roenigk.

Norman Smoke Consumer & Fuel Co., 419 Market St., Camden; manufacture boilers, furnaces, etc.; $25,000; F. R. Hansell, Geo. H. B. Martin, Wm. F. Eidell.

Domestic Utility Co., Portland, Me.; making and dealing in water stills, water filters, etc.; $50,000; R. S. Davis, G. W. Davis, Portland.

Schratwieser Fireproof Constn. Co., Cranford, N. J.; construction business; $250,000; Jacob Schratwieser, C. Schratwieser.

McDonough Constn. Co., Troy, N. Y.; $25,000; Michael McDonough, Troy; Joseph M. Phillips, Thos. O'Connor, Waterford.

Unity Telep. Co., Unity, Me.; $10,000; Edwin E. McCauslin, F. A. Whitehouse.

Wausaukee Tel. Co., Wausaukee, Wis.; $10,000; H. P. Bird, Henry Laun.

Eureka Tel. Co., Titus, Ind.; $10,000; Jesse E. Gwartney, Chas. Yeager, Chas. E. Faith.

Georgia-Carolina Brick Co., Augusta, Ga.; $10,000; Richard B. Morris, J. L. Hankinson, Arthur H. Merry.

Waltz & Reese Construction Co., Billings, Mont.; $10,000; J. B. Waltz, P. L. Reese, P. B. Moss.

Cotton States Bridge Co., Atlanta, Ga.; $10,000; J. T. Rose, W. M. Kelly, Atlanta.

Washita Valley Construction Co., Hobart, Okla. Ter.; $1,250,000; D. S. Dill, D. S. Woolfinger.

Newkirk Stone & Construction Co., Newkirk, Okla. Ter.; $10,000; J. M. Haynes, W. D. Lewis, J. C. Armstrong.

Farmers' & Merchants' Mutual Tel. Co., Waurieka, Okla. Ter.; $10,000; J. M. and C. M. Bellamy, A. X. Campbell, Lawton, Okla. Ter.

Texas Automatic Tel. Construction Co., Fort Worth, Tex.; $25,000.

Philadelphia Steel & Iron Co., Camden, N. J.; to manufacture steel and iron; $125,000; W. L. Wier, Chas. F. Walter, Alfred C. Rex.

National Supply Co., 221 Atlantic Ave., Atlantic City, N. J.; manufacture brick and deal in building; $50,000; Chas. M. Speidel, John Booye, O. H. Guttridge.

Susquehanna Construction Co., 15 Exchange Place, Jersey City, N. J.; $25,000; Walter S. Hoyt, Geo. A. Vail.

Sterling Specialty Supply Co., 52 Duryea St., Newark, deal in building materials; $20,000; Robt. Stenhouse, L. B. Howard, Edw. P. Hurd, Jr.

People's Tel. Co., Tulare, Cal.; $10,000; S. P. Sibley, C. F. Pratt, W. M. Robertson.

Twin City Const'n Co., Minneapolis, Minn.; $50,000; Edw. C. Hollidge, H. M. Funston, Chas. H. Teeter.

Superior Machine & Boiler Works, Chicago; $10,000; Wm. H. Pontius, Peter Weiler, J. T. Smith.

People's Mutual Tel. Co., Litchfield, Ill.; $5,000; G. W. Rtinery, J. R. Paisley, S. G. Canedy.

Westbrook Tel. Co., Westbrook, Me., $10,000; Russell D. Woodman, Alexander Speirs, Wm. Lyons.

Pless Dredger & Reclamation Co., Gold Hill, Nev.; $1,000,000; S. L. Jones, J. Thomas, H. M. Gorham.

Jones & Laughlin Steel Co., Pittsburg, Pa.; $10,000.

Lower Luzerne Tel. & Supply Co., Shickshinny, Pa.; $7,500.

Jackson Tel. Co., Buttonwood, Lycoming county, Pa.; $12,000.

Vermillion Telephone Co., Vermillion, O.; $25,000.

Dane County Rural Telephone Co., Madison, Wis.; $10,000; J. C. Harper, H. C. Winter, H. J. Sutherland.

Atlas Coupling Co., 40 Hanover, St., Boston, Mass.; $100,000; pipe couplings; W. W. Nutting, H. T. Merriam.

Automatic Railway Signal Co., Portland, Me.; $1,000,000; Harry L. Cram, Portland, Me.; Wm. B. Ayers, E. J. McNulty, Boston, Mass.

The Corrington Air-Brake Co., New York, N.Y.; $5,000,000; J. N. Beckley, Rochester, N.Y.; H. M. Watson, Buffalo, N.Y.; Murray Corrington, New York, N. Y.

German-American Steel Ball Co., 243 Washington St., Jersey City, N. J.; manufacture steel balls, etc.; $1,000,000; F. W. G. Maack, L. C. F. Killian, Geo. White, Jr.

Contract Work Should Always be Advertised in a Paper Read by Contractors.

NEARLY EVERY PROMINENT CONTRACTOR and Manufacturer of Contractors' Supplies IN NORTH AMERICA READS THIS PAPER.

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